

Arlington Conservation Commission

Date: Thursday, August 5, 2021

Time: 7:30 PM

Location: Conducted by Remote Participation

Please note: The listing of matters are those reasonably anticipated which may be discussed at the meeting. Not all items listed may in fact be discussed and other items not listed may be brought up for discussion to the extent permitted by law.

Agenda

- 1. Administrative
 - a. Review draft 07/15/2021 minutes
 - b. Thorndike Place comprehensive permit application updates
 - c. 1165R Mass Ave comprehensive permit application updates
 - d. Conservation Commission accounts status review
 - e. Meadowbrook Park update on regional Municipal Vulnerability Preparedness grant project that created concept designs for large-scale green infrastructure in the Mystic River Watershed, including a wetlands restoration concept for Meadowbrook Park
 - f. Open Space and Recreation Plan update
 - g. Water Bodies Working Group update
 - h. Remembrance of Climate Futures update
- 2. Discussion
 - a. Regulations Update: Streams
- 3. Hearings

Notice of Intent

Notice of Intent: Spy Pond Treatment Program MassDEP File #091-0330 Request to Continue to 08/19/2021

7:45pm This project proposes a water quality management program for Spy Pond.

Request for Plan Amendment

Request for Plan Amendment:10-16 Mill Street

MassDEP File #091-0294

This project proposes to redevelop existing mill buildings on three separate lots within 7:45pm

the Riverfront Area of Mill Brook. This project was approved by the Commission on

6/21/2018, and an extension was granted until 6/21/2023.

Request for Certificate of Compliance

Request for Certificate of Compliance:46 Spy Pond Parkway MassDEP File #091-0300

The project as approved proposed to raze and rebuild an existing single family home and add resource area improvements through a native vegetation buffer along Spy Pond and pervious 8:00pm paver driveway, walkways, and patio in the 100-ft wetlands buffer and AURA of Spy Pond. The project was approved on 11/20/2018.



Town of Arlington, Massachusetts

Review draft 07/15/2021 minutes

Summary:

Review draft 07/15/2021 minutes

ATTACHMENTS:

Type File Name Description

Minutes 07152021_Minutes_Conservation_Commission.pdf Draft 07/15/2021 minutes



Arlington Conservation Commission

Date: July 15, 2021 Time: 7:30pm

Location: Conducted through Remote Participation using Zoom

Minutes

Attendance: Commission Members Susan Chapnick (Chair), Pam Heidell, Dave Kaplan, Nathaniel Stevens, Chuck Tirone (Vice Chair), and David White; Associate Commissioner Cathy Garnett; and Conservation Agent Emily Sullivan. Commissioner Mike Gildesgame and Associate Commissioner Doug Kilgour were not present. Members of the public included Matt Maggiore (1021 Mass Ave), Paul Maggiore (1021 Mass Ave), Jacquie Maggiore (1021 Mass Ave), Paul Feldman (1021 Mass Ave) Katie Enright (10-16 Mill Street), Drew Hunter (10-16 Mill Street), Clara Schneider, Rachel Barglow, Tamaki Sugihara, Jennifer Campbell, Christian Klein, Jennifer Raitt (Department of Planning and Community Development), and Kelly Lynema (Department of Planning and Community Development).

06/17/2021 Meeting Minutes

The Commission discussed edits to the draft 06/17/2021 minutes. N. Stevens motioned to approve the minutes as edited, D. Kaplan seconded, all were in favor, motion approved. A roll call vote was taken. S. Chapnick voted yes, P. Heidell voted yes, D. Kaplan voted yes, N. Stevens voted yes, C. Tirone voted yes, and D. White voted yes.

Permit Tolling Clarification

The Commission discussed how the Governor's order to extend certain provisions of the State of Emergency impacted permit tolling. The Commission asked E. Sullivan to determine in consultation with Town Counsel how permits issued under both the Wetlands Protection Act and Arlington Bylaw for Wetlands Protection were impacted.

Thorndike Place Comprehensive Permit Update

E. Sullivan summarized her site visit to the Thorndike Place site, which took place on 6/18/2021. E. Sullivan presented photos of the site, which showed evidence of invasive species, dumping and refuse due to the homelessness encampment, and construction debris. The Commission requested that the photos be geolocated to better understand how site disturbances interact_relate to location of with wetland resource areas.

S. Chapnick asked the Commission whether they should pursue enforcement action against the property owner due to the condition of the site. E. Sullivan stated that the Select Board requested that the Conservation Commission, Board of Health, Police Department, and Legal Department investigate whether there were viable enforcement

actions against the property owner, particularly as it relates to the condition of the site and cleaning up the site.

- P. Heidell asked whether enforcement was necessary and asked if the Zoning Board of Appeals could condition clean-up as part of the comprehensive permit <u>for Thorndike</u> <u>Place</u>, if one is issued.
- C. Tirone stated that some of the neglected areas and areas with significant trash are within the proposed development area and that they would be resolved through the construction process.
- N. Stevens emphasized that the burden of proof for an enforcement would be on the Commission to prove that the homeless encampments were degrading or polluting resource areas.
- S. Chapnick asked whether there were statutes of limitation on dumping and older debris. C. Tirone stated that the Commission should distinguish between ongoing violations and past violations. For example, construction debris onsite is a past violation, but encampment debris is an ongoing violation.
- C. Tirone stated that the Commission should not pursue enforcement action. C. Tirone stated that this area is not pristine resource area, especially given the proximity of the site to combined sewer overflow systems. C. Tirone stated that from recent photos it appears that native vegetation is successful even though there are invasive species onsite.
- S. Chapnick asked the Commission to take on straw poll on whether it should pursue enforcement action:
 - C. Tirone stated no, the Commission should not pursue enforcement action
 - D. White stated no.
 - P. Heidell stated that the Commission usually sends a letter to property owners if a violation is suspected, and that the Commission should send a letter to the property owner.
 - N. Stevens stated that he liked P. Heidell's idea, and that the Commission should send a Notice of Potential Violation.
 - S. Chapnick also agree with P. Heidell.
- C. Tirone cautioned the Commission that it should not say that the Commission has definite enforcement authority since the Commission is not certain that an enforcement order is viable.

Request for Certificate of Compliance: 46 Spy Pond Parkway

MassDEP File #091-0300

Documents Reviewed:

- 1) 46 Spy Pond Parkway NOI
- 2) 46 Spy Pond Parkway OOC

- 46 Spy Pond Parkway Request for Certificate of Compliance ("RCOC") and As-Built
- 4) 46 Spy Pond Parkway Additional RCOC Materials, dated 02/25/2021
- 5) COC Internal Checklist

Resource Areas:

- 100-ft Wetlands Buffer
- Adjacent Upland Resource Area

The Applicant requested that the hearing be continued to the 8/5/2021 meeting because they had not finished compiling the additional materials requested by the Commission, including:

- 1) updated planting plan
- 2) move markers to new buffer boundary, put markers on new planting plan
- 3) evaluate moving generator outside of 50-ft buffer boundary (is it feasible per building code, if yes make a plan for moving it)
- 4) site visit for the Commission

N. Stevens motioned to continue the hearing to the Commission's 8/5/2021 meeting, C. Tirone seconded, all were in favor, motion approved. A roll call vote was taken. S. Chapnick voted yes, P. Heidell voted yes, D. Kaplan voted yes, N. Stevens voted yes, C. Tirone voted yes, and D. White voted yes.

Notice of Intent: Spy Pond Treatment and Management Program

MassDEP File #091-0330

Documents Reviewed:

- 1) Spy Pond Treatment and Management Program NOI
- 2) MassDEP File #091-0258 Spy Pond Treatment OOC

Resource Areas:

Land Under Water Bodies and Waterways

The Applicant requested that the hearing be continued to the 8/5/2021 meeting.

N. Stevens motioned to continue the hearing to the Commission's 8/5/2021 meeting, D. White seconded, all were in favor, motion approved. A roll call vote was taken. S. Chapnick voted yes, P. Heidell voted yes, D. Kaplan voted yes, N. Stevens voted yes, C. Tirone voted yes, and D. White voted yes.

Request for Permit Amendment: 10-16 Mill Street

MassDEP File #091-0294

Documents Reviewed:

- 1) 10-16 Mill Street NOI
- 2) 10-16 Mill Street OOC
- 3) 10-16 Mill Street Request for Permit Extension
- 4) 10-16 Mill Street Extended OOC
- 5) 10-16 Mill Street Request for Permit Amendment

Resource Areas:

- 200-ft Riverfront Area
- Mill Brook

This project proposes to redevelop existing mill buildings on three separate lots within the Riverfront Area of Mill Brook. This project was approved by the Commission on 6/21/2018, and an extension was granted until 6/21/2023.

K. Enright presented the proposed amendments to the project:

- The front entry plaza has been redesigned to include a small gathering space, open seating, and a wall.
- The dumpster relocation to the rear of the building has been removed, and the dumpsters will remain where they currently exist. The existing dumpster pad will be reconstructed to allow stormwater to properly flow, and a privacy fence will be installed
- An accessible path has been designed from Mill Brook Drive to the rear of the building to accommodate ADA accessibility for pedestrians from Mill Brook Drive.
- A larger, pervious, synthetic turf play space has been incorporated to replace pavement in the rear of the building.
- Grading modifications to the slope along the back wall of the existing 10-12 Mill Street Building have been proposed to direct water away from the existing foundation of the building. This grading modification will result in the removal of 5 trees (2 <6", 1-8", 1-10", and 1-12"). Per the Arlington Wetland Protection Bylaw, this requires replacement in the amount of 8 trees. Being that the area to relocate these trees is a very steep slope (approximately 1.5:1), shrubs are proposed as an alternative for stabilizing the slope and ensuring long term survivability. The amendment proposes to install totals 26 shrubs/trees.</p>
- The amendment proposes to install three (3) 500-gallon capacity drywells rather than the originally approved two (2) 500-gallon capacity drywells in the rear of the property and installing one (1) 1,000-gallon capacity drywell in the front of the property. This will increase drywell capacity from the originally approved 1,00 gallons to 2,500 gallons.
- Overall, the amendment proposes to reduce impervious area onsite by approximately 1,400 square feet.
- S. Chapnick asked C. Garnett if she thought the proposed planting plan was appropriate. C. Garnett stated that the planting plan was appropriate and sufficient, and that the trees proposed for removal are Norway maples, which prevent understory growth.
- S. Chapnick stated that she did not think synthetic turf was a good idea due to its chemical composition, and possible leaching into the Mill Brook resource area. Although not under conservation jurisdiction, S. Chapnick also cited multiple peer reviewed studies about the negative health impacts of synthetic turf materials, especially for children. S. Chapnick recommended that the Applicant research the more organic synthetic turf alternative Somerville is installing at Dilboy Stadium, which does not use crumb rubber infill.

- P. Heidell requested that the Town Engineer review the proposed stormwater management system.
- D. Kaplan asked whether a stormwater report was prepared for the project. E. Enright stated that a stormwater report was not prepared since the site is entirely impervious in its current condition, and the project proposes to reduce impervious area. D. Kaplan asked whether soil test pits had been conducted to confirm infiltration. K. Enright stated that soil test pits had not been conducted.
- N. Stevens notes that the original Notice of Intent included a stormwater report which included an Operations & Maintenance Plan for the stormwater system as Appendix A. N. Stevens stated that the O&M Plan should be revised to reflect the amended stormwater system.
- D. Kaplan stated that he is uncomfortable with considering the synthetic turf "pervious" if it is serviced by an underdrain. P. Heidell stated that the synthetic turf approved for the Arlington High School project was considered impervious.
- S. Chapnick opened the hearing to public comment.
- J. Campbell stated that she was concerned with the proposed tree removal but was now less concerned since the trees are Norway maples. J. Campbell asked if there would be chemical treatments applied to the planting area. S. Chapnick stated that the Commission has a standard condition limiting chemical treatments in resource areas.
- C. Klein stated that if stormwater is directed to the synthetic turf, then the infill material, such as crumb rubber, could migrate.

The Commission discussed additional information requirements. The Commission requested the following additional information:

- 1. Request that the Town Engineer review the amended stormwater system
- 2. Revise the stormwater system O&M Plan
- 3. Create an O&M Plan for the synthetic turf
- 4. Consider the more organic synthetic turf alternative Somerville is installing
- 5. Confirm that all proposed trees for removal are Norway maples

The Commission requested the additional information be submitted no later than the end of the day on 7/29/2021.

N. Stevens motioned to continue the hearing to the Commission's 8/5/2021 meeting, C. Tirone seconded, all were in favor, motion approved. A roll call vote was taken. S. Chapnick voted yes, P. Heidell voted yes, D. Kaplan voted yes, N. Stevens voted yes, C. Tirone voted yes, and D. White voted yes.

1021-1027 Mass Ave Working Session

S. Chapnick emphasized that this was a working session.

This project proposes to redevelop two lots within the Riverfront Area of Mill Brook. This is a prospective 40B Comprehensive Permit Application. The proponent has not yet sought a Project Eligibility Letter from MassHousing. Until a complete application has been properly filed with the Conservation Commission, the Commission will not approve or make any determination concerning potential work. Statements by the Commission or any Commission member in working sessions shall not be construed as prejudging a project or guaranteeing a particular action by the Commission on a subsequent filing.

- P. Feldman presented the project concept, which proposes to construct 48 units onsite (10 affordable and 38 market rate). The concept proposes 50 interior parking spaces on the first floor of the development, and 9 exterior parking spaces behind the building accessible only through the interior parking lot. The first floor also includes approximately 1,100 square feet of retail space.
- P. Feldman noted that the existing back portion of these parcels is forested area, and that there is a large parking lot between the back edge of these parcels and Mill Brook.
- P. Heidell asked if there was an opportunity for off-site mitigation as part of this project, perhaps at 993 Mass Ave (the parking lot area between the back of these parcels and Mill Brook).
- N. Stevens asked if the Commission has could remember whether it has permitted offsite mitigation for previous projects. C. Tirone noted that 1 Mass Ave (Homewood Suites) was approved with offsite mitigation in the form of mitigation planting on the adjacent DCR-owned property.
- C. Tirone stated that the trees on these parcels are valuable habitat in the Riverfront Area even if there is a parking lot between the site and Mill Brook. C. Tirone stated that a parking lot or grass lawn is not an approvement to the resource area if trees are removed.
- M. Maggiore stated that approximately 8-10 trees would be disturbed and that they are Norway maples.
- D. Kaplan supported the idea of offsite mitigation.
- D. White noted that the Town has been working to create a linear greenway along this stretch of Mill Brook, between Grove Street and Brattle Street.
- N. Stevens recommended that the proponent investigate the feasibility of a porous pavement parking lot.

- S. Chapnick recommended that the proponent determine the species and size of all proposed trees for removal.
- S. Chapnick opened the working session to public comment.
- C. Klein stated that he appreciated that the proponent reached out to the Conservation Commission. C. Klein noted that the building at 1021 Mass Ave is a historic building.
- J. Raitt stated that 993-995 Mass Ave is under the jurisdiction of the Arlington Redevelopment Board (ARB) and that any offsite mitigation on 993-995 Mass Ave would reopen the Environmental Design Review process and require ARB approval. J. Raitt also noted the topographic change from the front of the parcels to the back of the parcel, which slope down towards Mill Brook.

1165R Mass Ave 40B Comprehensive Permit Update

- S. Chapnick stated that the Commission provided preliminary revisions to the ZBA regarding the 1165R Mass Ave draft decision. The ZBA will discuss the draft decision at their 7/19/2021 meeting.
- C. Tirone motioned to close the Commission meeting, N. Stevens seconded, all were in favor, motioned approved.

Meeting adjourned at 9:52pm.



Town of Arlington, Massachusetts

Conservation Commission Accounts

Summary:

D

Conservation Commission accounts status review

ATTACHMENTS:

Type File Name Description

Reference Material Conservation_Accounts_Status_08032021.pdf Conservation Accounts_08032021



TOWN OF ARLINGTON

730 Massachusetts Ave. Arlington, MA 02476 781-316-3012

ARLINGTON CONSERVATION COMMISSION

Conservation Commission Munis Accounts

Conservation Comm Fees Fund Balance as of 08/03/2021: \$28,119.66

Conservation Education Fund Balance as of 08/03/2021: \$412.03

Arlington Land Stewards Fund ("ACS Other")
Administered by the Arlington Land Trust
Fund Balance as of 2/17/2021: \$5,987.22



Town of Arlington, Massachusetts

Meadowbrook Park Update

Summary:

Meadowbrook Park update on regional Municipal Vulnerability Preparedness grant project that created concept designs for large-scale green infrastructure in the Mystic River Watershed, including a wetlands restoration concept for Meadowbrook Park

ATTACHMENTS:

	Type	File Name	Description
ם	Reference Material	210726_Arlington_Meadowbrook_Concept_21008_REV.pd	Meadowbrook Park 10% Concept

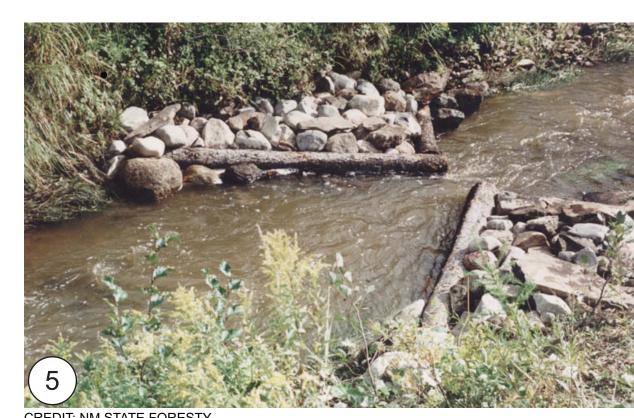




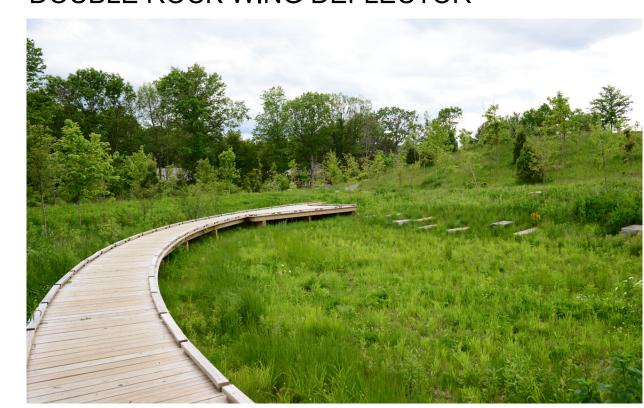
IMBRICATED RIP RAP



ROCK CROSS VANE



DOUBLE ROCK WING DEFLECTOR



CREDIT: KMDG
BOARDWALK OVER WETLAND



CREDIT: WSP & MLS



ROOT WAD



PERMEABLE WALKING PATH WITH SIGNAGE



KIOSK

NOTE: STREAM RESTORATION TECHNIQUE LOCATIONS TO BE REFINED BASED ON FURTHER FIELD DATA COLLECTION



Town of Arlington, Massachusetts

Notice of Intent

Summary:

Notice of Intent: Spy Pond Treatment Program

MassDEP File #091-0330

Request to Continue to 08/19/2021

7:45pm This project proposes a water quality management program for Spy Pond.

ATTACHMENTS:

	Type	File Name	Description
D	Notice of Intent	Spy_Pond_Treatment_NOI.pdf	Spy Pond Treatment NOI
D	Notice of Intent	Spy_Pond_OOC_#091-0258.pdf	Spy Pond OOC #091-0258 (previous treatment OOC)
D	Notice of Intent	Spy_Pond_Treatment_NHESP_Letter_06232021.pd	If Spy Pond NHESP Response to NOI

Notice of Intent Application Spy Pond Aquatic Management Program

Arlington, MA

May 2021

Prepared for:

Town of Arlington
Conservation Commission
730 Massachusetts Avenue
Arlington, MA 02476

Prepared by:

SŌLitude Lake Management 590 Lake Street Shrewsbury, MA 01545



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>	NOI Wetland Fee Transmittal Form	
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>	ATTACHMENT B - Project Description 1.0 Introduction 2.0 Problem Statement 3.0 Site Description 4.0 Existing Conditions 5.0 In-Lake Management Recommendations 5.1 Program Overview 5.2 Proposed Products 5.3 Monitoring 6.0 Alternatives Analysis 7.0 Compliance 8.0 Impacts of the Proposed Management Plan Specific to the Wetland Protection Act	10 12 3 10 10 10 1s
>	ATTACHMENT C – Figures Figure 1: Site Locus Figure 2: Natural Heritage & Endangered Species Program Habitats Figure 3: Invasive Vegetation Assemblage (Spring 2020)	
>	ATTACHMENT D – Herbicide/Algaecide Information	



WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provi	ded by MassDEP:
-	MassDEP File Number
-	Document Transaction Number
_	Document Transaction Number

City/Town

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

3.

4.

A. General Information 1. Project Location (**Note:** electronic filers will click on button to locate project site): a. Street Address b. City/Town c. Zip Code Latitude and Longitude: d. Latitude e. Longitude f. Assessors Map/Plat Number g. Parcel /Lot Number

Арріісапі.				
a. First Name		b. Last Name		
c. Organization				
d. Street Address				
e. City/Town		f. State	g. Zip Code	
h. Phone Number	i. Fax Number	j. Email Address		

h. Phone Number	i. Fax Number	j. Email Address		
Property owner (re	quired if different from a	oplicant):		
a. First Name		b. Last Name		
c. Organization				
d. Street Address				
e. City/Town		f. State	g. Zip Code	
h. Phone Number	i. Fax Number	j. Email address		
Representative (if	any):			
a. First Name		b. Last Name		
c. Company				
d. Street Address				
e. City/Town		f. State	g. Zip Code	
h. Phone Number	i. Fax Number	j. Email address		



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Α.	General Information (continued)				
6.	General Project Description:				
7a.	Project Type Checklist: (Limited Project Types see	e Section A. 7b.)			
	1. Single Family Home	2. Residential Subdivision			
	3. Commercial/Industrial	4. Dock/Pier			
	5. Utilities	6. Coastal engineering Structure			
	7. Agriculture (e.g., cranberries, forestry)	8. Transportation			
	9. Dther				
7b.	Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?				
	1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)				
	2. Limited Project Type				
	If the proposed activity is eligible to be treated as a CMR10.24(8), 310 CMR 10.53(4)), complete and a Project Checklist and Signed Certification.				
8.	Property recorded at the Registry of Deeds for:				
	a. County	b. Certificate # (if registered land)			
	c. Book	d. Page Number			
В.	Buffer Zone & Resource Area Imp	acts (temporary & permanent)			
1.	☐ Buffer Zone Only – Check if the project is local Vegetated Wetland, Inland Bank, or Coastal R				
2.	Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).				
	Check all that apply below. Attach narrative and ar	ny supporting documentation describing how the			

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project will meet all performance standards for each of the resource areas altered, including

standards requiring consideration of alternative project design or location.



narrative

area was

delineated.

the resource

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Resource Area Size of Proposed Alteration Proposed Replacement (if any) а. П Bank 1. linear feet 2. linear feet For all projects b. П **Bordering Vegetated** affecting other Wetland 1. square feet 2. square feet Resource Areas. please attach a c. 🗌 Land Under 1. square feet 2. square feet explaining how Waterbodies and Waterways 3. cubic yards dredged Resource Area Size of Proposed Alteration Proposed Replacement (if any) **Bordering Land** d. 🗌 1. square feet 2. square feet Subject to Flooding 3. cubic feet of flood storage lost 4. cubic feet replaced е. 🔲 Isolated Land 1. square feet Subject to Flooding 2. cubic feet of flood storage lost 3. cubic feet replaced Riverfront Area 1. Name of Waterway (if available) 2. Width of Riverfront Area (check one): 25 ft. - Designated Densely Developed Areas only 100 ft. - New agricultural projects only 200 ft. - All other projects 3. Total area of Riverfront Area on the site of the proposed project: square feet 4. Proposed alteration of the Riverfront Area: a. total square feet b. square feet within 100 ft. c. square feet between 100 ft. and 200 ft. 5. Has an alternatives analysis been done and is it attached to this NOI? ☐ Yes☐ No 6. Was the lot where the activity is proposed created prior to August 1, 1996? ☐ Yes☐ No

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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your
document
transaction
number
(provided on your
receipt page)
with all
supplementary
information you
submit to the
Department.

Resource Area		Size of Proposed Altera	ation_	Proposed Replacement (if any)
a. Designated Port Areas		Indicate size under Land Under the Ocean, below		
b. 🗌	Land Under the Ocean	1. square feet		
		2. cubic yards dredged		
c. 🗌	Barrier Beach	Indicate size under Coa	astal Beach	nes and/or Coastal Dunes below
d. 🗌	Coastal Beaches	1. square feet		2. cubic yards beach nourishment
e. 🗌	Coastal Dunes	1. square feet		2. cubic yards dune nourishment
		Size of Proposed Altera	ation <u>I</u>	Proposed Replacement (if any)
f. 🗌	Coastal Banks	1. linear feet		
g. 🗌	Rocky Intertidal Shores	1. square feet		
h. 🗌	Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation
i. 🗌	Land Under Salt Ponds	1. square feet		
		2. cubic yards dredged		
j. 🗌	Land Containing Shellfish	1. square feet		
k. 🗌	Fish Runs			s, inland Bank, Land Under the Waterbodies and Waterways,
		1. cubic yards dredged		
I. 🗌	Land Subject to Coastal Storm Flowage	1. square feet		
Restoration/Enhancement If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.				
a. square feet of BVW			are feet of Sal	t Marsh
☐ Pro	ject Involves Stream Cross	ings		
a. number of new stream crossings			ber of replace	ement stream crossings

4.

5.



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Ma	assachusetts Wetlands Protection Act M.G.L. c. 131, §40	Document Transaction Number
		City/Town
C.	Other Applicable Standards and Requirements	
	This is a proposal for an Ecological Restoration Limited Project. Sk complete Appendix A: Ecological Restoration Notice of Intent – Re 10.11).	
Str	reamlined Massachusetts Endangered Species Act/Wetlands P	rotection Act Review
1.	Is any portion of the proposed project located in Estimated Habitat of Ra the most recent Estimated Habitat Map of State-Listed Rare Wetland Wild Natural Heritage and Endangered Species Program (NHESP)? To view has Massachusetts Natural Heritage Atlas or go to http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/priority_habitated	dlife published by the abitat maps, see the
	a. Yes No If yes, include proof of mailing or hand delive	ry of NOI to:
	Natural Heritage and Endangered Species Proposition of Fisheries and Wildlife 1 Rabbit Hill Road Westborough, MA 01581	gram
	If yes, the project is also subject to Massachusetts Endangered Species of CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protect complete Section C.1.C, and include requested materials with this Notice complete Section C.1.d, if applicable. If MESA supplemental information by completing Section 1 of this form, the NHESP will require a separate of the project of the project of the section 2 apply, see	ction Act review, please of Intent (NOI); OR is not included with the NOI, MESA filing which may take
	1c. Submit Supplemental Information for Endangered Species Review*	
	Percentage/acreage of property to be altered:	
	(a) within wetland Resource Area percentage/acreage	
	(b) outside Resource Area percentage/acreage	
	2. Assessor's Map or right-of-way plan of site	
2.	Project plans for entire project site, including wetland resource areas wetlands jurisdiction, showing existing and proposed conditions, existing tree/vegetation clearing line, and clearly demarcated limits of work **	
	(a) Project description (including description of impacts outside of buffer zone)	of wetland resource area &
	(b) Photographs representative of the site	

^{*} Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/dfwele/dfw/nhesp/nhesp.htm, regulatory review tab). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

^{**} MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process. 22 of 221 wpaform3.doc • rev. 11/24/2014 Page 5 of 9



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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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C. Other Applicable Standards and Requirements (cont'd)

	Make o	ww.mass.go	g fee (fee information availa ov/dfwele/dfw/nhesp/regula le to "Commonwealth of Ma	tory_review		
	Projects	s altering 10 o	or more acres of land, also su	bmit:		
	(d)	Vegetation	cover type map of site			
	(e)	Project pla	ns showing Priority & Estim	nated Habita	at boundaries	
	(f) OF	R Check One	e of the Following			
	1. 🗌	Attach app http://www. the NOI mu	exempt from MESA review. licant letter indicating which mass.gov/dfwele/dfw/nhesust still be sent to NHESP if 10.37 and 10.59.)	p/regulator	<u>y_review/mesa/n</u>	nesa_exemptions.htm;
	2. 🗌	Separate MI	ESA review ongoing.	a. NHESP	Tracking #	b. Date submitted to NHESP
	3. 🗌	Include cop	MESA review completed. by of NHESP "no Take" det approved plan.	ermination	or valid Conserv	ation & Management
3.	For coastal		ly, is any portion of the prop	oosed proje	ct located below	the mean high water
	a. Not a	pplicable – p	project is in inland resource	area only		
	b. 🗌 Yes	☐ No	If yes, include proof of ma	iling or han	d delivery of NO	to either:
			South Shore - Cohasset to R Island, and the Cape & Islan		North Shore - Hul	I to New Hampshire:
			Division of Marine Fisheries Southeast Marine Fisheries Attn: Environmental Reviewe 1213 Purchase Street – 3rd New Bedford, MA 02740-66	Station er Floor	Division of Marine North Shore Office Attn: Environment 30 Emerson Aven Gloucester, MA 0	e tal Reviewer nue

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.



WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Prov	ided by MassDEP:
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C. Other Applicable Standards and Requirements (cont'd)

	4.	Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?			
Online Users: Include your document		a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). Note: electronic filers click on Website.			
transaction		b. ACEC			
number (provided on your receipt page) with all	5.	Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?			
supplementary		a. Yes No			
information you submit to the Department.	6.	Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)			
		a. Yes No			
	7.	Is this project subject to provisions of the MassDEP Stormwater Management Standards?			
		 Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if: Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3) 			
		2. A portion of the site constitutes redevelopment			
		3. Proprietary BMPs are included in the Stormwater Management System.			
		b. No. Check why the project is exempt:			
		1. Single-family house			
		2. Emergency road repair			
		3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.			
	D.	Additional Information			
		This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).			
		Applicants must include the following with this Notice of Intent (NOI). See instructions for details.			
		Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.			
		USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site (Electronic filers may omit this item.)			
		2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.			



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Prov	ided by MassDEP:
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D	Additiona	I Information	(cont'd)
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	3.	Identify the method for BVW and o Field Data Form(s), Determination and attach documentation of th	of Applicability, Order of Res				
	4.	List the titles and dates for all plans	s and other materials submitt	ed with this NOI.			
	a. F	Plan Title					
	b. F	Prepared By	c. Signed and Stamped	d by			
	d. F	inal Revision Date	e. Scale				
	f. A	dditional Plan or Document Title		g. Date			
	5.	If there is more than one property of listed on this form.	owner, please attach a list of	these property owners not			
	6.	Attach proof of mailing for Natural	Heritage and Endangered Sp	pecies Program, if needed.			
	7.	Attach proof of mailing for Massacl	nusetts Division of Marine Fis	sheries, if needed.			
	8. 🗌	a. Attach NOI Wetland Fee Transmittal Form					
	9. 🗌	Attach Stormwater Report, if neede	ed.				
E.	Fees	<u> </u>					
	1.	Fee Exempt: No filing fee shall be of the Commonwealth, federally reauthority, or the Massachusetts Ba	cognized Indian tribe housing				
		ants must submit the following inform ansmittal Form) to confirm fee paym		and 2 of the NOI Wetland			
	2. Munic	ipal Check Number	3. Check date				
	4. State	Check Number	5. Check date				
	6. Pavor	name on check: First Name	7. Payor name on	check: Last Name			



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Ma	ssDEP File N	lumber
Do	cument Trans	action Number
A	lington	
01	y/Town	

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Firely 5-49v-41 (49) 5, 2021 DH 40 EDT)	05/06/21
1. Signature of Applicant	2. Date
Emily Sulfivan (May 6, 2021 60 40 (21)	05/06/21
3. Signature of Property Owner (if different)	4. Date
den-	05/18/21
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Duleau of Nesource Protection - Wellands

A. Applicant Information

NOI Wetland Fee Transmittal Form

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Location of Project	rt:		
a. Street Address		b. City/Town	
c. Check number		d. Fee amount	
Applicant Mailing	Address:		
a. First Name		b. Last Name	
c. Organization			
d. Mailing Address			
e. City/Town		f. State	g. Zip Code
h. Phone Number	i. Fax Number	j. Email Address	
Property Owner (i	f different):		
a. First Name		b. Last Name	
c. Organization			
d. Mailing Address			
e. City/Town		f. State	g. Zip Code
h. Phone Number	i. Fax Number	i. Email Address	

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

Fee should be calculated using the following process & worksheet. *Please see Instructions before filling out worksheet.*

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

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В.	Fees (continued)			
	Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
				-
				_
		Step 5/To	otal Project Fee	 :
		Step 6/	Fee Payments:	
		Total	Project Fee:	a. Total Fee from Step 5
		State share	of filing Fee:	b. 1/2 Total Fee less \$ 12.50
		City/Town share	e of filling Fee:	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection Box 4062 Boston, MA 02211

b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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d	Document Transaction Number
	Citv/Town

Provided by MassDEP:

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Eligibility Checklist

This Ecological Restoration Limited Project Eligibility Checklist guides the applicant in determining if their project is eligible to file as an Inland or Coastal Ecological Restoration Limited Project (310 CMR 10.53(4) or 310 CMR 10.24(8) respectively). These criteria must be met when submitting the Ecological Restoration Limited Project Notice of Intent to ensure that the restoration and improvement of the natural capacity of a Resource Area(s) to protect and sustain the interests identified in the WPA is **necessary** to achieve the project's ecological restoration goals.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not

tab

kev.

use the return



Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

Regulatory Features of All Coastal and Inland Ecological Restoration Limited Projects

- (a) May result in the temporary or permanent loss of/or conversion of Resource Area: An Ecological Restoration Limited Project that meets the requirements of 310 CMR 10.24(8) may result in the temporary or permanent loss of Resource Areas and/or the conversion of one Resource Area to another when such loss is necessary to the achievement of the project's ecological restoration goals.
- (b) Exemption from wildlife habitat evaluation: A NOI for an Ecological Restoration Limited Project that meets the minimum requirements for Ecological Restoration Projects and for a MassDEP Combined Application outlined in 310 CMR 10.12(1) and (2) is exempt from providing a wildlife habitat (310 CMR 10.60), but still must meet the general performance standards for Bank [310 CMR 10.54(4)(a)5]; Land Under Water Bodies and Waterways [310 CMR 10.56(4)(a)4], and Wildlife Habitat Evaluation [310 CMR 10.60].

e following are considerations for applicants filing an Ecological Restoration Limited Project NOI d for the issuing authority approving a project as an Ecological Restoration Limited Project:
The condition of existing and historic Resource Areas proposed for restoration.
Evidence of the extent and severity of the impairment(s) that reduce the capacity of the Resource Areas to protect and sustain the interests identified in M.G.L. c. 131, § 40.
The magnitude and significance of the benefits of the Ecological Restoration Project in improving the capacity of the affected Resource Areas to protect and sustain the other interests identified in M.G.L. c. 131, § 40.
The magnitude and significance of the impacts of the Ecological Restoration Project on existing Resource Areas that may be modified, converted and/or lost and the interests for which said Resource Areas are presumed significant in 310 CMR 10.00, and the extent to which the project will:

- a. avoid adverse impacts to Resource Areas and the interests identified in M.G.L. c. 131, § 40, that can be avoided without impeding the achievement of the project's ecological restoration goals.
- b. minimize adverse impacts to Resource Areas and the interests identified in M.G.L. c. 131, § 40, that are necessary to the achievement of the project's ecological restoration goals.
- utilize best management practices such as erosion and siltation controls and proper construction sequencing to avoid and minimize adverse construction impacts to resource areas and the interests identified in M.G.L. c. 131, § 40.



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8))

Complete this Eligibility Criteria Checklist *before* filling out a Notice of Intent Application to determine if your project qualifies as a Coastal Ecological Restoration Limited Project. (310 CMR 10.24(8)) Sign the Eligibility Certification at the end of Appendix A, and attach the checklist with supporting documentation and the Eligibility Certification to your Notice of Intent Application.

General Eligibility Criteria for All Coastal Ecological Restoration Limited Projects

and Col Ecc	twithstanding the requirements of 310 CMR 10.25 through 10.35, 310 CMR 10.54 through 10.58, if the Wildlife Habitat evaluations in 310 CMR 10.60, the Issuing Authority may issue an Order of Inditions permitting an Ecological Restoration Project listed in 310 CMR 10.24(8)(e) as an ological Restoration Limited Project and impose such conditions as will contribute to the interests in the WPA M.G.L. provided that the project meets all the requirements in 310 CMR 10.24
	The project is an Ecological Restoration Project as defined in 310 CMR 10.04 and is a project type listed below [310 CMR 10.24(8)(e)].
	Tidal Restoration.
	Shellfish Habitat Restoration.
	Other Ecological Restoration Limited Project Type.
	The project will further at least one of the WPA (M.G.L. c. 131, § 40) interests identified below.
	☐ Protection of public or private water supply.
	☐ Protection of ground water supply.
	Flood control.
	☐ Storm damage prevention.
	☐ Prevention of pollution.
	☐ Protection of land containing shellfish.
	☐ Protection of fisheries.
	☐ Protection of wildlife habitat.
	If the project will impact an area located within estimated habitat which is indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetlands, a NHESP preliminary written determination is attached to the NOI submittal that the project will not have any adverse long-term and short-term effects on specified habitat sites of Rare Species or the project will be carried out in accordance with an approved NHESP habitat management plan.



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Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8)) (Cont.)

General Eligibility Criteria for All Coastal Ecological Restoration Limited Projects (cont.)
 If the project is located in a Coastal Dune or Barrier Beach, the project avoids and minimizes armoring of the Coastal Dune or Barrier Beach to the maximum extent practicable. The project complies with all applicable provisions of 310 CMR 10.24(1) through (6) and 310 CMR 10.24(9) and (10).
Additional Eligibility Criteria for Specific Coastal Ecological Restoration Limited Project Types
These additional criteria must be met to qualify as an Ecological Restoration Limited Project to ensure that the restoration and improvement of the natural capacity of a Resource Area to protect and sustain the interests identified in the WPA is necessary to achieve the project's ecological restoration goals.
☐ This Ecological Restoration Limited Project application meets the eligibility criteria for Ecological Restoration Limited Project [310 CMR 10.24(8)(a) through (d) and as proposed, furthers at least one of the WPA interests is for the project type identified below.
☐ Tidal Restoration Projects
A project to restore tidal flow that will not significantly increase flooding or storm damage impacts to the built environment, including without limitation, buildings, wells, septic systems, roads or other man-made structures or infrastructure.
☐ Shellfish Habitat Restoration Projects
The project has received a Special Projects Permit from the Division of Marine Fisheries or, if a municipality, has received a shellfish propagation permit.
The project is made of cultch (e.g., shellfish shells from oyster, surf or ocean clam) or is a structure manufactured specifically for shellfish enhancement (e.g., reef blocks, reef balls, racks, floats, rafts, suspended gear).
Other Ecological Restoration Projects that meet the criteria set forth in 310 CMR 10.24(8)(a) through (d).
Restoration, enhancement, or management of Rare Species habitat.
Restoration of hydrologic and habitat connectivity.
Removal of aquatic nuisance vegetation to impede eutrophication.
☐ Thinning or planting of vegetation to improve habitat value.
Fill removal and re-grading.
Riparian corridor re-naturalization.
River floodplain re-connection.



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8)) (Cont.)

Addit	ional Eligibility Criteria for Specific Coastal Ecological Restoration Limited Project Types
	☐ In-stream habitat enhancement.
	Remediation of historic tidal wetland ditching.
	☐ Eelgrass restoration.
	☐ Invasive species management.
	☐ Installation of fish passage structures.
	Other. Describe:
	nis project involves the construction, repair, replacement or expansion of public or private frastructure (310 CMR 10.24(9). The NOI attachment labeled is an operation and maintenance plan to ensure that the infrastructure will continue to function as designed. The operation and maintenance plan will be implemented as a continuing condition in the Order of Conditions and the Certificate of Compliance.
	This project proposes to replace an existing stream crossing (310 CMR 10.24(10). The crossing complies with the Massachusetts Stream Crossing Standards to the maximum extent practicable with details provided in the NOI. The crossing type:
	 Replaces an existing non-tidal crossing that is part of an Anadromous/Catadromous Fish Run (310 CMR 10.35) Replaces an existing tidal crossing that restricts tidal flow. The tidal restriction will be eliminated to the maximum extent practicable. At a minimum, in evaluating the potential to comply with the standards to the maximum extent practicable the following criteria have been consider site constraints in meeting the standard, undesirable effects or risk in meeting the standard, and the environmental benefit of meeting the standard compared to the cost, by evaluating the following:
	☐ The potential for downstream flooding;
	☐ Upstream and downstream habitat (in-stream habitat, wetlands);
	☐ Potential for erosion and head-cutting;
	☐ Stream stability;
	☐ Habitat fragmentation caused by the crossing;
	☐ The amount of stream mileage made accessible by the improvements;
	☐ Storm flow conveyance:



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Eligibility Criteria - Coastal Ecological Restoration Limited Projects (310 CMR 10.24(8)) (Cont.)

Additional Eligibility Criteria for Specific Coastal Ecological Restoration Limited Project Types
☐ Engineering design constraints specific to the crossing;
☐ Hydrologic constraints specific to the crossing;
☐ Impacts to wetlands that would occur by improving the crossing;
☐ Potential to affect property and infrastructure; and
Cost of replacement.
Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4))
Complete this Eligibility Criteria Checklist before filling out a Notice of Intent Application to determine if your project qualifies as an Inland Ecological Restoration Limited Project. (310 CMR 10.53(4)) Sign the Eligibility Certification at the end of Appendix B, and attach the checklist with supporting documentation and the Eligibility Certification to your Notice of Intent Application.
General Eligibility Criteria for All Inland Ecological Restoration Limited Projects
Notwithstanding the requirements of any other provision of 310 CMR 10.25 through 10.35, 310 CMR 10.54 through 10.58, and 310 CMR 10.60, the Issuing Authority may issue an Order of Conditions permitting an Ecological Restoration Project listed in 310 CMR 10.53(4)(e) as an Ecological Restoration Limited Project and impose such conditions as will contribute to the interests identified in M.G.L. c. 131, § 40, provided that:
☐ The project is an Ecological Restoration Project as defined in 310 CMR 10.04 and is a project type listed below [310 CMR 10.53(4)(e)].
☐ Dam Removal
Freshwater Stream Crossing Repair and Replacement
Stream Daylighting
☐ Tidal Restoration
Rare Species Habitat Restoration
Restoring Fish Passageways



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Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4)) (cont.)

General Eligibility Criteria for All Inland Ecological Restoration Limited Projects		
	The project will further at least one of the WPA (M.G.L. c. 131, § 40) interests identified below.	
	☐ Protection of public or private water supply	
	☐ Protection of ground water supply	
	☐ Flood control	
	☐ Storm damage prevention	
	☐ Prevention of pollution	
	☐ Protection of land containing shellfish	
	☐ Protection of fisheries	
	☐ Protection of wildlife habitat	
	If the project will impact an area located within estimated habitat which is indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetlands, a NHESP preliminary written determination is attached to the NOI submittal that the project will have no adverse long-term and short-term effects on specified habitat sites of Rare Species or the project will be carried out in accordance with an approved NHESP habitat management plan.	
	The project will be carried out in accordance with any time of year restrictions or other conditions recommended by the Division of Marine Fisheries for coastal waters and the Division of Fisheries and Wildlife in accordance with 310 CMR 10.11(3).	
	If the project involves the dredging of 100 cubic yards of sediment or more or dredging of any amount in an Outstanding Resource Water, a Water Quality Certification has been applied for or obtained.	
	The project complies with all applicable provisions of 310 CMR 10.53(1), (2), (7), and (8).	



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4)) (cont.)

Additional Eligibility Criteria for Specific Inland Ecological Restoration Limited Project Types

tha	t the	additional criteria must be met to qualify as an Ecological Restoration Limited Project to ensure restoration and improvement of the natural capacity of a Resource Area to protect and sustain rests identified in the WPA is necessary to achieve the project's ecological restoration goals.
	acc	s project application meets the eligibility criteria for Ecological Restoration Limited Project in cordance with [310 CMR 10.53(4)(a) through (d) and as proposed, furthers at least one of the PA interests is for the project type identified below:
		Dam Removal
		☐ Project is consistent with MassDEP's 2007 Dam Removal Guidance.
		Freshwater Stream Crossing Repair and Replacement . The project as proposed and the NOI describes how:
		☐ Meeting the eligibility criteria set forth in 310 CMR 10.13 would result in significant stream instability or flooding hazard that cannot otherwise be mitigated, and site constraints make it impossible to meet said criteria.
		☐ The project design ensures that the stability of the bank is NOT impaired.
		☐ To the maximum extent practicable, the project provides for the restoration of the stream upstream and downstream of the structure as needed to restore stream continuity and eliminate barriers to aquatic organism movement.
		☐ The project complies with the requirements of 310 CMR 10.53(7) and (8).
		Stream Daylighting Projects
		The project meets the eligibility criteria for Ecological Restoration Limited Project [310 CMR 10.53(4)(a) through (d)] and as proposed the NOI describes how the proposed project meets to the maximum extent practicable, consistent with the project's ecological restoration goals, all the performance standards for Bank and Land Under Water Bodies and Waterways.
		☐ The project meets the requirements of 310 CMR 10.12(1) and (2) and a wildlife habitat evaluation is not included in the NOI.
		Tidal Restoration Project
		Restores tidal flow.
		the project, including any proposed flood mitigation measures, will not significantly increase flooding or storm damage to the built environment, including without limitation.

buildings, wells, septic systems, roads or other man-made structures or infrastructure.



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Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4)) (cont.)

10.24(8)(a) through (d).
Restoration, enhancement, or management of Rare Species habitat.
Restoration of hydrologic and habitat connectivity.
Removal of aquatic nuisance vegetation to impede eutrophication.
☐ Thinning or planting of vegetation to improve habitat value.
Riparian corridor re-naturalization.
River floodplain re-connection.
☐ In-stream habitat enhancement.
Fill removal and re-grading.
☐ Flow restoration.
☐ Installation of fish passage structures.
☐ Invasive species management.
Other. Describe:
This project involves the construction, repair, replacement or expansion of public or private infrastructure. (310 CMR 10.53(7)) The NOI attachment labeled is an operation and maintenance plan to ensure that the infrastructure will continue to function as designed. The operation and maintenance plan will be implemented as a continuing condition in the Order of Conditions and the Certificate of Compliance.
This project replaces an existing stream crossing (310 CMR 10.53(8)). The crossing type:
 Replaces an existing non-tidal crossing designed to comply with the Massachusetts Stream Crossing Standards to the maximum extent practicable with details provided in the NOI. Replaces an existing tidal crossing that restricts tidal flow. The tidal restriction will be eliminated to the maximum extent practicable.



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Eligibility Criteria - Inland Ecological Restoration Limited Project (310 CMR 10.53(4)) (cont.)

At a minimum, in evaluating the potential to comply with the standards to the maximum extent practicable the following criteria have been consider site constraints in meeting the standard, undesirable effects or risk in meeting the standard, and the environmental benefit of meeting the standard compared to the cost, by evaluating the following:
☐ The potential for downstream flooding;
☐ Upstream and downstream habitat (in-stream habitat, wetlands);
☐ Potential for erosion and head-cutting;
☐ Stream stability;
☐ Habitat fragmentation caused by the crossing;
☐ The amount of stream mileage made accessible by the improvements;
☐ Storm flow conveyance;
☐ Engineering design constraints specific to the crossing;
☐ Hydrologic constraints specific to the crossing;
☐ Impacts to wetlands that would occur by improving the crossing;
☐ Potential to affect property and infrastructure; and
Cost of replacement.



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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Required Actions (310 CMR 10.11)

Complete the Required Actions <u>before</u> submitting a Notice of Intent Application for an Ecological Restoration Project and submit a completed copy of this Checklist with the Notice of Intent.

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Massachusetts Environmental Policy Act (MEPA) / Environmental Monitor http://www.mass.gov/eea/agencies/mepa/submitting-notices-to-the-environmental-monitor.html		
For Ecological Restoration Limited Projects, there are no changes to MEPA requirements.		
Submit written notification at least 14 days prior to the filing of a Notice of Intent (NOI) to the Environmental Monitor for publication. A copy of the written notification is attached and provides at minimum:		
☐ A brief description of the proposed project.		
☐ The anticipated NOI submission date to the conservation commission.		
☐ The name and address of the conservation commission that will review the NOI.		
Specific details as to where copies of the NOI may be examined or acquired and where to obtain the date, time, and location of the public hearing.		
Massachusetts Endangered Species Act (MESA) /Wetlands Protection Act Review		
Preliminary Massachusetts Endangered Species Act Review from the Natural Heritage and Endangered Species Program (NHESP) has been met and the written determination is attached.		
☐ Supplemental Information for Endangered Species Review has been submitted.		
1. Percentage/acreage of property to be altered:		
a. Within Wetland Resource Area Percentage/acreage		
b. Outside Wetland Resource Area Percentage/acreage		
2. Assessor's Map or right-of-way plan of site		
3. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work.		
4. Project description (including description of impacts outside of wetland resource area & buffer zone)		
5.		
6. MESA filing fee (fee information available at		



WPA Form 3 – Notice of Intent **Appendix A: Ecological Restoration Limited Project Checklists**

Provided by MassDEP:
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Document Transaction Number
City/Town

Massach

Require

oject Checklists		City/Town
	ection Act M.G.L. c. 131, §4	
quired Actions (310 C	CMR 10.11) (cont.)	
Make check payable to	"Commonwealth of Massachuset	ts - NHESP" and mail to NHESP:
Natural Heritage & MA Division of Fisher 1 Rabbit Hill Road Westborough, MA 0		
7. Projects altering 10	or more acres of land, also subm	it:
a. Uegetation	cover type map of site	
b. 🗌 Project plar	s showing Priority & Estimated H	abitat boundaries
OR Check One of the F	ollowing:	
1. Project is exem	pt from MESA review.	
http://www.mass.gov/ee endangered-species-ac estimated habitat pursua	ant to 310 CMR 10.37 and 10.59	ge/regulatory-review/mass- it to NHESP if the project is within
Z. ☐ Separate MESF	A review ongoing.	
		b. Date submitted to NHESP of NHESP "no Take" determination ed plan.
☐ Estimated Habitat Map of	State-Listed Rare Wetlands Wil	dlife
on the most recent Estimate Natural Heritage and Endan view habitat maps, see the I	d Habitat Map of State-Listed Ra gered Species Program (NHESP Massachusetts Natural Heritage	abitat of Rare Wildlife as indicated re Wetland Wildlife published by the), complete the portion below. To a Atlas or view the maps natural-heritage/regulatory-review
(NHESP) must be obtain Project will NOT impact Estimated Habitat Map Project will impact an ar Estimated Habitat Map	ned indicating that: an area located within estimated of State-Listed Rare Wetlands Wi rea located within estimated habit of State-Listed Rare Wetlands Wi iminary determination in accordar	at indicated on the most recent ldlife published by NHESP. A copy



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

Provided by MassDEP:
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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Ч	med Addiente (616 Gillit 1611 I) (661tt.)
	If the Rare Species identified is/are likely to continue to be located on or near the project, and if so, whether the Resource Area to be altered is in fact part of the habitat of the Rare Species.
	☐ That if the project alters Resource Area(s) within the habitat of a Rare Species:
	☐ The Rare Species is identified;
	□ NHESP's recommended changes or conditions necessary to ensure that the project will have no short or long term adverse effect on the habitat of the local population of the Rare Species is provided; or
	☐ An approved NHESP habitat management plan is attached with this Notice of Intent.
	Send the request for a preliminary determination to: Natural Heritage & Endangered Species Program MA Division of Fisheries & Wildlife 1 Rabbit Hill Road Westborough, MA 01581
	Division of Marine Fisheries
	☐ If the project will occur within a coastal waterbody with a restricted Time of Year, [see Appendix B of the Division of Marine Fisheries (DMF) Technical Report TR 47 "Marine Fisheries Time of Year Restrictions (TOYs) for Coastal Alteration Projects" dated April 2011 http://www.nae.usace.army.mil/Portals/74/docs/regulatory/StateGeneralPermits/NEGP/MADMFTR-47.pdf].
	☐ Obtain a DMF written determination stating:
	☐ The proposed work does NOT require a TOY restriction.
	The proposed work requires a TOY restriction. Specific recommended TOY restriction and recommended conditions on the proposed work is attached.
	☐ If the project may affect a diadromous fish run [re: Division of Marine Fisheries (DMF) Technical Reports TR 15 through 18, dated 2004: http://www.mass.gov/eea/agencies/dfg/dmf/publications/technical.html]
	☐ Obtain a DMF written determination stating:
	 The design specifications and operational plan for the project are compatible with the passage requirements of the fish run. The design specifications and operational plan for the project are not compatible with the passage requirements of the fish run.



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

	MassDEP File Number
4	Document Transaction Number
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Provided by MassDEP:

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Required Actions (310 CMR 10.11) (cont.)

Send the request for a written determination to:

Division of Marine Fisheries - Southeast Marine Fisheries Station Attn: Environmental Reviewer 1213 Purchase Street – 3rd Floor New Bedford, MA 02740-6694 North Shore - Hull to New Hampshire: Division of Marine Fisheries - North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930

Division of Fisheries and Wildlife – http://www.mass.gov/eea/agencies/dfg/dfw/
 Projects that involve silt-generating, in-water work that will impact a non-tidal perennial river or stream and the in-water work will not occur between May 1 and August 30. Obtain a written determination from the Division of Fisheries and Wildlife (DFW) as to whethe the proposed work requires a TOY restriction.
☐ The proposed work does NOT require a TOY restriction.
The proposed work requires a TOY restriction. The DFW determination with TOY restriction and other conditions is attached.
MassDEP Water Quality Certification
Project involves dredging of 100 cubic yards or more in a Resource Area or dredging of any amount in an Outstanding Resource Water (ORW). A copy and proof of the MassDEP Water Quality Certification pursuant to 314 CMR 9.00 is attached to the NOI.
☐ This project is a Combined Permit Application for 401 Dredging and Restoration (BRP WW 26).
MassDEP Wetlands Restriction Order
Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restrictio Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
☐ Yes ☐ No
Department of Conservation and Recreation
Office of Dam Safety
For Dam Removal Projects, obtain a written determination from the Department of Conservation and Recreation Office of Dam Safety that the dam is not subject to the jurisdiction of the Office under 302 CMR 10.00, a written determination that the dam removal does not require a permit under 302 CMR 10.00 or a permit authorizing the dam removal in accordance with 302 CMR 10.00 has been issued.



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

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Project Checklists Manage describes Mathematical Act M.C.	City/Town		
Massachusetts Wetlands Protection Act M.G.	-		
Required Actions (310 CMR 10.11) (cont.)		
Areas of Critical Environmental Concern (ACE	Cs)		
Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?			
☐ Yes ☐ No If yes, provide name of MassDEP Website for A	ACEC (see instructions to WPA Form 3 or ACEC locations).		
Minimum Required Documents (310	CMR 10.12)		
At a minimum, a Notice of Intent for an Ecological	Restoration Project shall include the following:		
Description of the project's ecological restoration goals;			
☐ The location of the Ecological Restoration Project;			
☐ Description of the construction sequence for o	☐ Description of the construction sequence for completing the project;		
A map of the Areas Subject to Protection Under M permanently altered by the project or include habi and Statewide Importance, eel grass beds, or She	tat for Rare Species, Habitat of Potential Regional		
The method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.) is attached with documentation methodology.			
List the titles and dates for all plans and other	materials submitted with this NOI.		
a. Plan Title			
b. Prepared by	c. Signed and Stamped by		
d. Final Revision Date	e. Scale		
f. Additional Plan or Document Title If there is more than one property owner, attactorm. Attach NOI Wetland Fee Transmittal Form.	g. Date ch a list of these property owners not listed on this		
Allacit NOI Welland Fee Hansilillai Folfii.			



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

Provided by MassDEP:
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inimum Required Documents (310 CMR 10.12)		
	An evaluation of any flood impacts that may affect the built environment, including without limitation, buildings, wells, septic systems, roads or other man-made structures or infrastructure as well as any proposed flood impact mitigation measures;	
	A plan for invasive species prevention and control;	
	The Natural Heritage and Endangered Species Program written determination in accordance with 310 CMR 10.11(2), if needed;	
	Any Time of Year restrictions and/or other conditions recommended by the Division of Marine Fisheries or the Division of Fisheries and Wildlife in accordance with 310 CMR 10.11(3), (4), (5), if needed;	
	Proof that notice was published in the Environmental Monitor as required by 310 CMR 10.11(1;	
	A certification by the applicant under the penalties of perjury that the project meets the eligibility criteria set forth in 310 CMR 10.13;	
	If the Ecological Restoration Project involves the construction, repair, replacement or expansion of infrastructure, an operation and maintenance plan to ensure that the infrastructure will continue to function as designed;	
	If the project involves dredging of 100 cubic yards or more or dredging of any amount in an Outstanding Resource Water, a Water Quality Certification issued by the Department pursuant to 314 CMR 9.00;	
	If the Ecological Restoration Project involves work on a stream crossing, information sufficient to make the showing required by 310 CMR 10.24(10) for work in a coastal resource area and 310 CMR 10.53(8) for work in an inland resource area; and	
	If the Ecological Restoration Project involves work on a stream crossing, baseline photo-points that capture longitudinal views of the crossing inlet, the crossing outlet and the upstream and downstream channel beds during low flow conditions. The latitude and longitude coordinates of the photo-points shall be included in the baseline data.	
	This project is subject to provisions of the MassDEP Stormwater Management Standards. A copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR $10.05(6)(k)$ -(q) is attached.	
	Provide information as the whether the project has the potential to impact private water supply wells including agricultural or aquacultural wells or surface water withdrawal points.	



WPA Form 3 – Notice of Intent Appendix A: Ecological Restoration Limited Project Checklists

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

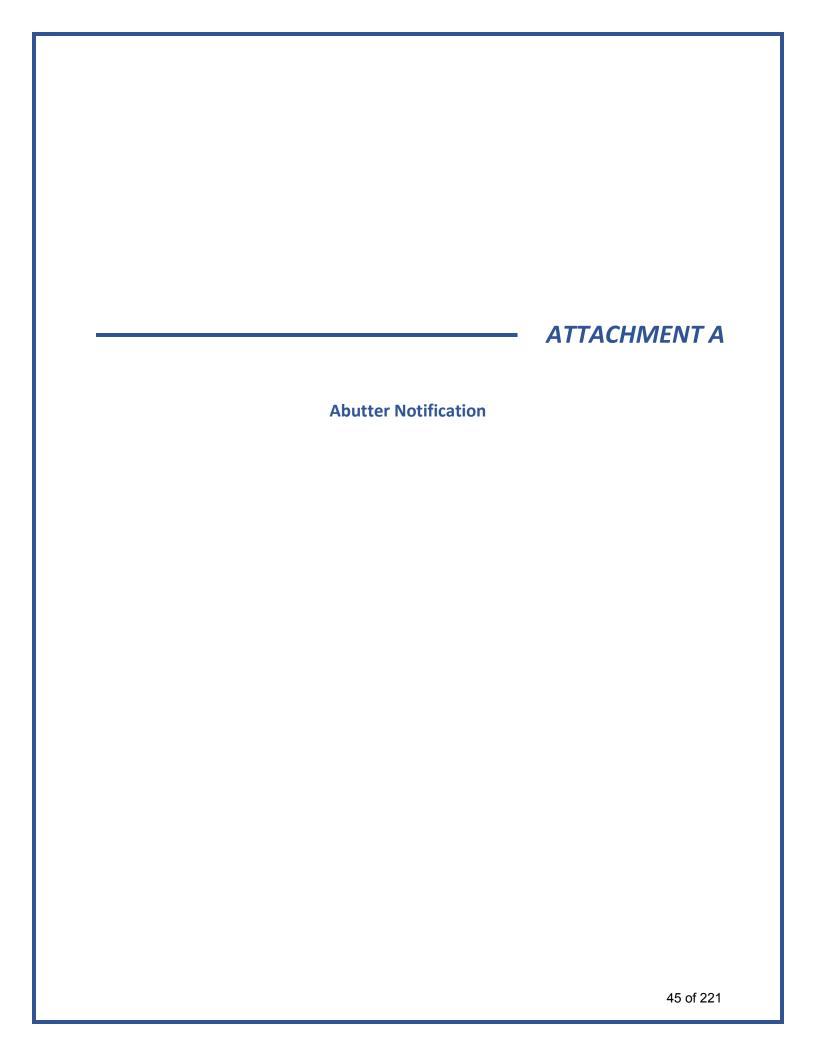
Pre	ovided by MassDEP:
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	City/Town

Certification that the Ecological Restoration Project Meets the Eligibility Criteria

I hereby certify under penalties of perjury that the Ecological Restoration Project Notice of Intent application does not meet the Eligibility criteria for an Ecological Restoration Order of Conditions set forth in 310 CMR 10.13, but does meet the Eligibility Criteria for a Ecological Restoration Limited Project set forth in 10.24(8) or 10.53(4) whichever is applicable. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

ey sin	
mily Sullivah (May 6, 2021 08:40 EDT) Signature of Applicant or Authorized Agent	
eg CM	5/6/2021
Printed Name of Applicant or Authorized Agent	Date

The certification must be signed by the applicant; however, it may be signed by a duly authorized agent (named in Item 2) if this form is accompanied by a statement by the applicant designating the agent and agreeing to furnish upon request, supplemental information in support of the application.





Office of the Board of Assessors Robbins Memorial Town Hall Arlington, MA 02476 (781) 316-3050 Assessors@town.arlington.ma.us

Abutters List

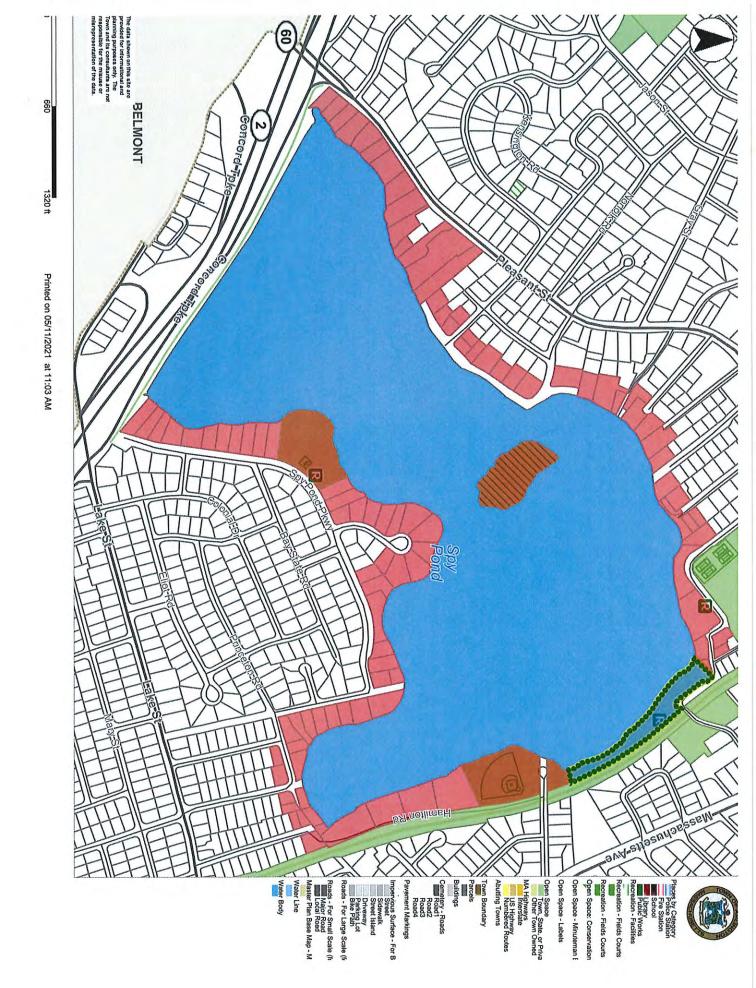
Date: May 11, 2021

Subject Property: SPY POND, Arlington, MA

Search Distance: 100 Feet - CONSERVATION

The Board of Assessors certifies the names and addresses of requested parties in interest, all abutters to SPY POND within 100 feet.

Board of Assessors



Abutters List

Date: May 11, 2021

Subject Property: Spy Pond

Search Distance: 100 Feet - Conservation

Prop ID: 10-5-6

Prop Location: 49 POND LN Arlington, MA

Owner: PHELPS CHRISTOPHER B & HEATHER

Co-Owner: Mailing Address: 49 POND LANE

ARLINGTON, MA 02474

Prop ID: 10-5-7.A

Prop Location: 51-53 POND LN Arlington, MA

Owner: A.B.G.C. FRIENDS INC.

Co-Owner: Mailing Address: C/O DEREK CURRAN 60 POND LN

ARLINGTON, MA 02476

Prop ID: 10-5-9

Prop Location: 56 POND LN Arlington, MA Owner: ARLINGTON ELKS BLDG CORP

Co-Owner: Mailing Address: 56 POND LANE

ARLINGTON, MA 02474

Prop ID: 10.A-5-1

Prop Location: 46-48 POND LN UNIT 1 Arlington, MA

Owner: MORRISON LAI-KUEN & DONALD M

Co-Owner: Mailing Address: 46 POND LN UNIT 1 ARLINGTON, MA 02474

Prop ID: 10.A-5-2

Prop Location: 46-48 POND LN UNIT 2 Arlington, MA

Owner: RUSSELL KAREN J

Co-Owner: Mailing Address: 46 POND LANE UNIT 2 ARLINGTON, MA 02474

Prop ID: 12-1-1

Prop Location: 40-42 ALFRED RD Arlington, MA

Owner: PERO JAMES L--ETAL Co-Owner: PERO BEVERLY J

Mailing Address:

43 CANDLEBERRY LANE HARVARD, MA 01451

Prop ID: 121-1-8

Prop Location: 24-26 LAKEVIEW Arlington, MA

Owner: BOWES ROBERT E

Co-Owner: Mailing Address: 26 LAKEVIEW ARLINGTON, MA 02476 Owner: JESSEN IAN Co-Owner: HATCH ELIZA

Prop ID: 121-2-10

Mailing Address: 36 PEABODY RD ARLINGTON, MA 02476

Prop ID: 12-1-22

Prop Location: 41-43 PONDVIEW RD Arlington, MA

Owner: MURPHY KATHRYN & GLENN Co-Owner: MURPHY EMMA & DITTO DREW

Prop Location: 36 PEABODY RD Arlington, MA

Mailing Address: 41-43 PONDVIEW RD ARLINGTON, MA 02474

Prop ID: 121-2-9

Prop Location: 45 HOPKINS RD Arlington, MA

Owner: CAP GMBH Co-Owner: Mailing Address:

PO BOX 292

ARLINGTON, MA 02476

Prop ID: 121-3-11

Prop Location: 0-LOT HOPKINS RD Arlington, MA

Owner: TIFFANY ANDREW/CAROLYN

Co-Owner: Mailing Address: 44 HOPKINS RD

ARLINGTON, MA 02476

Prop ID: 121-4-11

Prop Location: 0-LOT ADDISON ST Arlington, MA

Owner: TOWN OF ARLINGTON CHAP 111

Co-Owner: TOWN MANAGER

Mailing Address: 730 MASS AVE

ARLINGTON, MA 02476

Prop ID: 121-4-11.A

Prop Location: 0-LOT ADDISON ST Arlington, MA

Owner: TOWN OF ARLINGTON

Co-Owner: Mailing Address: 730 MASS AVE

ARLINGTON, MA 02476

Prop ID: 121-4-12

Prop Location: 36 ADDISON ST Arlington, MA

Owner: CHASAN GWEN B

Co-Owner: Mailing Address: 36 ADDISON STREET ARLINGTON, MA 02476

Prop ID: 121-4-13

Prop Location: 34 ADDISON ST Arlington, MA

Owner: SMITH ANA R/TRUSTEE Co-Owner: ANA SMITH TRUST

Mailing Address: 34 ADDISON ST

ARLINGTON, MA 02476

Prop ID: 121-4-9.A

Prop Location: 39 WELLINGTON ST UNIT A Arlington, MA

Owner: HOWARD PETER M & KEIKO

Co-Owner: Mailing Address:

39 WELLINGTON ST #39 ARLINGTON, MA 02476

Prop ID: 121-4-9.B

Prop Location: 39 WELLINGTON ST UNIT B Arlington, MA

Owner: TABERNER AIMEE LAURA

Co-Owner: Mailing Address: 41 WELLINGTON ST ARLINGTON, MA 02476

Prop ID: 121-6-2

Prop Location: 0-LOT POND LN Arlington, MA

Owner: TOWN OF ARLINGTON PARK

Co-Owner: Mailing Address: 730 MASS AVE

ARLINGTON, MA 02476

Prop ID: 121-7-1

Prop Location: 60 POND LN Arlington, MA Owner: ARLINGTON BOYS CLUB INC

Co-Owner: Mailing Address: 60 POND LANE

ARLINGTON, MA 02474

Prop ID: 121.A-3-10

Prop Location: 33 ADDISON ST UNIT 33 Arlington, MA

Owner: MACDONALD KYLE

Co-Owner: Mailing Address: 33 ADDISON ST

ARLINGTON, MA 02476

Prop ID: 121.A-3-11

Prop Location: 33 ADDISON ST UNIT 35 Arlington, MA

Owner: LOUISE DOROTHY

Co-Owner: Mailing Address:

35 ADDISON ST UNIT 2 ARLINGTON, MA 02476

Prop ID: 122-4-1

Prop Location: 10 CHAPMAN ST Arlington, MA

Owner: LOH SALLY WO-KWUN

Co-Owner: Mailing Address:

10 CHAPMAN STREET ARLINGTON, MA 02476

Prop ID: 122-4-10

Prop Location: 0-LOT SPRING VALLEY Arlington, MA

Owner: JARDINE ALICE A /TRUSTEE Co-Owner: ALICE A JARDINE TRUST

Mailing Address: 21 SPRING VALLEY ARLINGTON, MA 02476

Prop ID: 122-4-13.A

Prop Location: 25 SPRING VALLEY Arlington, MA

Owner: CARTER E EUGENE--ETAL Co-Owner: RITA RODRIGUEZ

Mailing Address: 25 SPRING VALLEY ARLINGTON, MA 02476

Prop ID: 122-4-16

Prop Location: 0-LOT SHORE RD Arlington, MA

Owner: CARTER E EUGENE--ETAL Co-Owner: RITA RODRIGUEZ

Mailing Address: 25 SPRING VALLEY ARLINGTON, MA 02476

Prop ID: 122-5-16.B

Prop Location: 19 LAKEVIEW Arlington, MA

Owner: BARBERA MARIANNE

Co-Owner: Mailing Address: 19 LAKEVIEW

ARLINGTON, MA 02476

Prop ID: 122-5-17

Prop Location: 17-1/2 LAKEVIEW Arlington, MA

Owner: BOUDREAU MARK E & Co-Owner: ZEILER KATHRYN M

Mailing Address:

17 LAKEVIEW ST # 1/2

ARLINGTON, MA 02476-8117

Prop ID: 122-6-10

Prop Location: 0-LOT SHORE RD Arlington, MA

Owner: MURDOCK GREGORY P Co-Owner: EVANS MARA S

Mailing Address: 34 GOULD RD

ARLINGTON, MA 02476

Prop ID: 122-6-11

Prop Location: 34 GOULD RD Arlington, MA

Owner: MURDOCK GREGORY P Co-Owner: EVANS MARA S

Mailing Address: 34 GOULD RD

ARLINGTON, MA 02476

Prop ID: 122-6-12

Prop Location: 30 GOULD RD Arlington, MA Owner: GILLETTE JONATHON H/ TRUSTEE Co-Owner: JONATHON H GILLETTE LIVING TR

Mailing Address: 30 GOULD ROAD

ARLINGTON, MA 02476

Prop ID: 122-6-6

Prop Location: 0-LOT CHAPMAN ST Arlington, MA

Owner: BERMAN JUDITH L/TRUSTEE

Co-Owner: JUDITH L BERMAN REVOCABLE TR

Mailing Address: 4 DEVEREAUX ST ARLINGTON, MA 02476

Prop ID: 122-6-7

Prop Location: 0-LOT SHORE RD Arlington, MA

Owner: STARK MARGO D/ETAL Co-Owner: FREUNDLICH DOUGLAS

Mailing Address:

8 DEVEREAUX STREET ARLINGTON, MA 02476

Prop ID: 122-6-8.A

Prop Location: 0-LOT SHORE RD Arlington, MA

Owner: RICCI GERALDINE R Co-Owner: RICCI STEPHEN J

Mailing Address: 10 DEVEREAUX ST ARLINGTON, MA 02476

Prop ID: 122-6-9

Prop Location: 14 DEVEREAUX ST Arlington, MA

Owner: MACPHERSON WILLIAM Co-Owner: LYDECKER KATHERINE

Mailing Address: 14 DEVEREAUX ST ARLINGTON, MA 02476

Prop ID: 122-7-1

Prop Location: 0-LOT ELIZABETH ISLAND Arlington, MA

Owner: ARLINGTON LAND TRUST, INC

Co-Owner: Mailing Address: PO BOX 492

ARLINGTON, MA 02476

Prop ID: 123-2-1

Prop Location: 240 PLEASANT ST Arlington, MA

Owner: BALAZS MARIANNE E

Co-Owner: Mailing Address: 19 ANNETT AVE

EDGEWATER, NJ 07020

Prop ID: 123-2-14.A

Prop Location: 21 GOULD RD Arlington, MA

Owner: SNODGRASS JENNIFER Co-Owner: BELKNAP PETER C

Mailing Address: 21 GOULD ROAD ARLINGTON, MA 02476

Prop ID: 123-2-15.A

Prop Location: 0-LOT GOULD RD Arlington, MA

Owner: SULLIVAN KARA

Co-Owner: LINDGREN JOHN LEE

Mailing Address: 25 GOULD RD

ARLINGTON, MA 02476

Prop ID: 123-2-16.A

Prop Location: 25 GOULD RD Arlington, MA

Owner: SULLIVAN KARA

Co-Owner: LINDGREN JOHN LEE

Mailing Address: 25 GOULD RD

ARLINGTON, MA 02476

Prop ID: 123-2-17

Prop Location: 0-LOT SHORE RD Arlington, MA

Owner: SULLIVAN KARA

Co-Owner: LINDGREN JOHN LEE

Mailing Address: 25 GOULD RD

ARLINGTON, MA 02476

Prop ID: 123-2-2.A

Prop Location: 232 PLEASANT ST UNIT A Arlington, MA

Owner: FRIIS JACOB & HYUN-A PARK

Co-Owner: Mailing Address:

232 PLEASANT STREET ARLINGTON, MA 02476

Prop ID: 123-2-2.B

Prop Location: 232 PLEASANT ST UNIT B Arlington, MA

Owner: DUFFY NIALL & SABINE

Co-Owner: Mailing Address: 6704 WEMBERLY

6704 WEMBERLY WAY MCLEAN, VA 22101

Prop ID: 123-2-3

Prop Location: 224-226 PLEASANT ST Arlington, MA

Owner: PERELI JULIUS R & MARTHA G

Co-Owner: Mailing Address:

224-226 PLEASANT ST ARLINGTON, MA 02476

Prop ID: 123-2-4

Prop Location: 220 PLEASANT ST Arlington, MA

Owner: HIBBETT AKIKO Y/ TRUSTEE

Co-Owner: AKIKO HIBBETT FAMILY TRUST

Mailing Address: C/O DAVID HIBBETT 48 OAK DR

UPTON, MA 01568

Prop ID: 123-2-6

Prop Location: 218 PLEASANT ST Arlington, MA

Owner: LIU YU-HSIOU Co-Owner: ISIK IBRAHIM

Mailing Address: 218 PLEASANT ST ARLINGTON, MA 02476

Prop ID: 123-2-6.E

Prop Location: 212 PLEASANT ST Arlington, MA

Owner: PAHIGIAN CHRISTINE

Co-Owner:

Mailing Address:

50 of 221

200 S BROADWAY

HASTINGS-ON-HUDSON, NY 10706

Prop ID: 123-2-7

Prop Location: 208 PLEASANT ST Arlington, MA

Owner: HARTES LLC

Co-Owner: Mailing Address:

136 BOYLSTON ST UNIT 4 BOSTON, MA 02116

Prop ID: 123-2-7.A

Prop Location: 204-206 PLEASANT ST Arlington, MA

Owner: ARONSON RICHARD B/ TRUSTEE

Co-Owner: SIRAH REALTY TRUST

Mailing Address: 204 PLEASANT ST ARLINGTON, MA 02476

Prop ID: 123-2-7.B

Prop Location: 210 PLEASANT ST Arlington, MA

Owner: HART ALEXIS C

Co-Owner: Mailing Address: 208 PLEASANT ST ARLINGTON, MA 02476

Prop ID: 12-4-1.A

Prop Location: 15 PRINCETON RD Arlington, MA

Owner: MUSIAL PETER M &

Co-Owner: MUSIAL-SIWEK MONIKA

Mailing Address: 15 PRINCETON RD ARLINGTON, MA 02474

Prop ID: 12-4-2

Prop Location: 47 SPY POND LN Arlington, MA

Owner: CONNOLLY MICHAEL ROBERT

Co-Owner:
Mailing Address:
47 SPY POND LN
ARLINGTON, MA 02474

Prop ID: 12-4-2.A

Prop Location: 49 SPY POND LN Arlington, MA

Owner: SEAVER PROPERTIES LLC

Co-Owner: Mailing Address: 215 LEXINGTON ST WOBURN, MA 01801

Prop ID: 12-4-3

Prop Location: 11 PRINCETON RD Arlington, MA

Owner: FERBER BENJAMIN E & Co-Owner: DONOFRIO AIMEE K

Mailing Address: 11 PRINCETON ROAD ARLINGTON, MA 02474

Prop ID: 12-4-4

Prop Location: 9 PRINCETON RD Arlington, MA

Owner: CAMERON MELANIE

Co-Owner: Mailing Address: 9 PRINCETON RD ARLINGTON, MA 02474 Prop ID: 137-5-1

Prop Location: 244 PLEASANT ST Arlington, MA Owner: ROSENFIELD BRUCE A/ TRUSTEE Co-Owner: BERNARD G & GERALDINE R SEGAL

O-OWINER, BEKNARD G & GERAL

Mailing Address:

244 PLEASANT STREET ARLINGTON, MA 02476

Prop ID: 137-5-2

Prop Location: 246 PLEASANT ST Arlington, MA

Owner: EYKAMP WILLIAM & MYRIEL C

Co-Owner: Mailing Address:

246 PLEASANT STREET ARLINGTON, MA 02476

Prop ID: 137-5-3

Prop Location: 248 PLEASANT ST Arlington, MA

Owner: YU ZHENHONG Co-Owner: YU YUE Mailing Address: 248 PLEASANT ST ARLINGTON, MA 02476

Prop ID: 137-5-4

Prop Location: 252 PLEASANT ST Arlington, MA

Owner: SCHWEICH PETER

Co-Owner: Mailing Address:

252 PLEASANT STREET ARLINGTON, MA 02476

Prop ID: 137-5-5

Prop Location: 256 PLEASANT ST Arlington, MA

Owner: SMITH MAUREEN P

Co-Owner: Mailing Address:

256 PLEASANT STREET ARLINGTON, MA 02476

Prop ID: 18-9-1

Prop Location: 42 SPY POND PKWY Arlington, MA

Owner: GALVIN SEAN D/TRUSTEE

Co-Owner: 389 MASS AVE REALTY TRUST

Mailing Address: 630 HIGH STREET MEDFORD, MA 02155

Prop ID: 18-9-2

Prop Location: 46 SPY POND PKWY Arlington, MA

Owner: GALVIN SEAN D & MARIMAR

Co-Owner: Mailing Address: 46 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 18-9-3

Prop Location: 38 SPY POND PKWY Arlington, MA

Owner: HURD JOHN/DALE

Co-Owner: Mailing Address: 38 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 18-9-4

Prop Location: 34 SPY POND PKWY Arlington, MA

Owner: CELLA JOSEPH A/STEVEN R

Co-Owner: Mailing Address: 34 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 19-1-1

Prop Location: 50 SPY POND PKWY Arlington, MA

Owner: COOPER MARGO M

Co-Owner: Mailing Address:

50 SPY POND PARKWAY ARLINGTON, MA 02474

Prop ID: 19-1-10.A

Prop Location: 18 SHERATON PK Arlington, MA

Owner: LAKE G F & L C

Co-Owner: Mailing Address: 18 SHERATON PARK ARLINGTON, MA 02474

Prop ID: 19-1-11.A

Prop Location: 22 SHERATON PK Arlington, MA Owner: PURCELL DANIEL A & ROBIN/TRS

Co-Owner: THE PURCELL TRUST

Mailing Address: 22 SHERATON PARK ARLINGTON, MA 02474

Prop ID: 19-1-12

Prop Location: 31 SHERATON PK Arlington, MA

Owner: SACCO ELAINE M

Co-Owner: Mailing Address: 24 SHERATON PK ARLINGTON, MA 02474

Prop ID: 19-1-13

Prop Location: 27 SHERATON PK Arlington, MA

Owner: NOYES ROBERT W-HARRIET T

Co-Owner: Mailing Address: 27 SHERATON PK ARLINGTON, MA 02474

Prop ID: 19-1-14

Prop Location: 23 SHERATON PK Arlington, MA

Owner: MIETTINEN PASI P Co-Owner: GARRETT KATIE

Mailing Address: 23 SHERATON PARK ARLINGTON, MA 02474

Prop ID: 19-1-15

Prop Location: 19 SHERATON PK Arlington, MA

Owner: MAVALVALA NERGIS Co-Owner: KHAN AIDA Mailing Address:

19 SHERATON PARK ARLINGTON, MA 02474 Prop ID: 19-1-16

Prop Location: 15 SHERATON PK Arlington, MA

Owner: CEPPI FRANCIS G/TR

Co-Owner: FRANCIS G CEPPI REVOCABLE

Mailing Address: 15 SHERATON PARK ARLINGTON, MA 02474

Prop ID: 19-1-2

Prop Location: 54 SPY POND PKWY Arlington, MA

Owner: DE VENECIA RONALD K

Co-Owner: Mailing Address: 54 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 19-1-22.A

Prop Location: 96 SPY POND PKWY Arlington, MA

Owner: ZIPES JANET L

Co-Owner: Mailing Address: 96 SPY POND PKWY. ARLINGTON, MA 02474

Prop ID: 19-1-23.A

Prop Location: 100 SPY POND PKWY Arlington, MA

Owner: TIBBETTS ALETTA & RICHARD

Co-Owner: Mailing Address: 20 ELIOT RD ARLINGTON, MA 02474

Prop ID: 19-1-24.B

Prop Location: 104 SPY POND PKWY Arlington, MA

Owner: HERMAN BETSY H/ LIFE ESTATE

Co-Owner: Mailing Address: 104 SPY POND PARKWAY ARLINGTON, MA 02474

Prop ID: 19-1-3

Prop Location: 0-LOT SPY POND PKWY Arlington, MA

Owner: KELWYN MANOR ASSOCIATION IN

Co-Owner: Mailing Address: 23 SHERATON PK ARLINGTON, MA 02474

Prop ID: 19-1-4

Prop Location: 74 SPY POND PKWY Arlington, MA

Owner: BARBER BRADFORD C

Co-Owner: Mailing Address: 74 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 19-1-5

Prop Location: 76 SPY POND PKWY Arlington, MA

Owner: PRESTON ALAN/LUANA TRUSTEE Co-Owner: 76 SPY POND PKWY TRUST

Mailing Address:

76 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 19-1-6

Prop Location: 2 SHERATON PK Arlington, MA Owner: THOMAS DARCY GRANT/ TRUSTEE Co-Owner: DARCY GRANT THOMAS LIVING TR

Mailing Address: 2 SHERATON PK ARLINGTON, MA 02474

Prop ID: 19-1-7

Prop Location: 6 SHERATON PK Arlington, MA

Owner: FINGER JONATHAN R & Co-Owner: KYCIA CAROL ANNE

Mailing Address: 6 SHERATON PK ARLINGTON, MA 02474

Prop ID: 19-1-8

Prop Location: 10 SHERATON PK Arlington, MA

Owner: PETRYSHEN TRACEY

Co-Owner: Mailing Address: 10 SHERATON PK ARLINGTON, MA 02474

Prop ID: 19-1-9

Prop Location: 14 SHERATON PK Arlington, MA

Owner: TRIBE CAROLYN A

Co-Owner: Mailing Address: 5 ASH STREET

CAMBRIDGE, MA 02138

Prop ID: 20-3-1

Prop Location: 114 SPY POND PKWY Arlington, MA

Owner: CAHILL RICHARD

Co-Owner:
Mailing Address:
114 SPY POND PKWY
ARLINGTON, MA 02474

Prop ID: 20-3-2

Prop Location: 0-LOT SPY POND PKWY Arlington, MA

Owner: BALAZS ANDRE T

Co-Owner: Mailing Address: 158 MERCER ST 10TH FLOOR

NEW YORK, NY 10012

Prop ID: 20-3-3

Prop Location: 122 SPY POND PKWY Arlington, MA

Owner: FANTASIA SALVATORE/FRANCA

Co-Owner: Mailing Address: 122 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 20-3-4

Prop Location: 0-LOT SPY POND LN Arlington, MA

Owner: FANTASIA SALVATORE C/FRANCA

Co-Owner:
Mailing Address:

122 SPY POND PKWY ARLINGTON, MA 02474 Prop ID: 20-5-1

Prop Location: 71 SPY POND LN Arlington, MA

Owner: TURANO RONA B

Co-Owner: Mailing Address: 71 SPY POND LANE ARLINGTON, MA 02474

Prop ID: 20-5-1.A

Prop Location: 65 SPY POND LN Arlington, MA

Owner: DE LEO JOHN M/TRUSTEE Co-Owner: DELEO FAMILY TRUST

Mailing Address: 65 SPY POND LANE ARLINGTON, MA 02474

Prop ID: 20-5-2

Prop Location: 61 SPY POND LN Arlington, MA

Owner: CHADWICK DANIEL/ETAL Co-Owner: GOLDSTEIN ROBIN E

Mailing Address: 61 SPY POND LANE ARLINGTON, MA 02474

Prop ID: 20-5-3

Prop Location: 57 SPY POND LN Arlington, MA

Owner: KAPLAN WILLIAM H

Co-Owner: Mailing Address: 57 SPY POND LANE ARLINGTON, MA 02474

Prop ID: 20-5-4

Prop Location: 53 SPY POND LN Arlington, MA

Owner: LOEFFLER EVAN/TRUSTEE

Co-Owner: SHAYNA W LOEFFLER IRREVOCABLE

Mailing Address: 53 SPY POND LANE ARLINGTON, MA 02474

Prop ID: 20.A-1-101

Prop Location: 18 HAMILTON RD UNIT 101 Arlington, MA

Owner: HAINES LINDA J/ TRUSTEE Co-Owner: HAINES FAMILY TRUST

Mailing Address:

18 HAMILTON RD #101 ARLINGTON, MA 02474

Prop ID: 20.A-1-102

Prop Location: 18 HAMILTON RD UNIT 102 Arlington, MA

Owner: KATES MICHAEL S

Co-Owner: Mailing Address: 21 GREYSTONE CT BURLINGTON, MA 01803

Prop ID: 20.A-1-103

Prop Location: 18 HAMILTON RD UNIT 103 Arlington, MA

Owner: BETTENCOURT PAULA/MARIO

Co-Owner: Mailing Address: 43 AMSDEN

ARLINGTON, MA 02474

Prop ID: 20.A-1-104

Prop Location: 18 HAMILTON RD UNIT 104 Arlington, MA

Owner: MC EWEN KAREN B

Co-Owner: Mailing Address:

18 HAMILTON ROAD #104 ARLINGTON, MA 02474

Prop ID: 20.A-1-105

Prop Location: 18 HAMILTON RD UNIT 105 Arlington, MA

Owner: BAYSTATE CONDOMINIUMS LLC

Co-Owner: Mailing Address: 956 MASS AVE

LEXINGTON, MA 02420

Prop ID: 20.A-1-106

Prop Location: 18 HAMILTON RD UNIT 106 Arlington, MA

Owner: BOJANIC IRENA Co-Owner: SEGRT JANKO

Mailing Address: 115 BACON ST NATICK, MA 01760

Prop ID: 20.A-1-107

Prop Location: 18 HAMILTON RD UNIT 107 Arlington, MA

Owner: STALCUP WILLIAM S

Co-Owner: Mailing Address:

18 HAMILTON ROAD #107 ARLINGTON, MA 02474

Prop ID: 20.A-1-108

Prop Location: 18 HAMILTON RD UNIT 108 Arlington, MA

Owner: BASSALEH JOSEPH & Co-Owner: DECARLO MADELEINE

Mailing Address:

18 HAMILTON RD #108 ARLINGTON, MA 02474

Prop ID: 20.A-1-201

Prop Location: 18 HAMILTON RD UNIT 201 Arlington, MA

Owner: POLLINA VINCENT J

Co-Owner: Mailing Address:

18 HAMILTON ROAD #201 ARLINGTON, MA 02474

Prop ID: 20.A-1-202

Prop Location: 18 HAMILTON RD UNIT 202 Arlington, MA

Owner: CADWGAN JOHONNA L

Co-Owner: Mailing Address: 18 HAMILTON RD #202 ARLINGTON, MA 02474

Prop ID: 20.A-1-203

Prop Location: 18 HAMILTON RD UNIT 203 Arlington, MA

Owner: ESTEVES ISIS E

Co-Owner: Mailing Address: 12 CONIFER LN AMHERST, NH 03031 Prop ID: 20.A-1-204

Prop Location: 18 HAMILTON RD UNIT 204 Arlington, MA

Owner: HARRIS ELWYN EVERETT

Co-Owner: Mailing Address:

18 HAMILTON ROAD #204 ARLINGTON, MA 02474

Prop ID: 20.A-1-205

Prop Location: 18 HAMILTON RD UNIT 205 Arlington, MA

Owner: POOR RIVA/ TRUSTEE Co-Owner: RIVA POOR 2016 TRUST

Mailing Address: 73 KIRKLAND ST CAMBRIDGE, MA 02138

Prop ID: 20.A-1-206

Prop Location: 18 HAMILTON RD UNIT 206 Arlington, MA

Owner: STRICKLAND BARBARA B

Co-Owner:
Mailing Address:
18 HAMILTON RD

18 HAMILTON RD UNIT 206 ARLINGTON, MA 02474

Prop ID: 20.A-1-207

Prop Location: 18 HAMILTON RD UNIT 207 Arlington, MA

Owner: MAHER JAMES M/ TRUSTEE Co-Owner: 18 HAMILTON REALTY TRUST

Mailing Address: 966 BROADWAY

SOMERVILLE, MA 02144

Prop ID: 20.A-1-208

Prop Location: 18 HAMILTON RD UNIT 208 Arlington, MA

Owner: ALBERT ALEXANDER C

Co-Owner: Mailing Address: 18 HAMILTON RD #208 ARLINGTON, MA 02474

Prop ID: 20.A-1-301

Prop Location: 18 HAMILTON RD UNIT 301 Arlington, MA

Owner: KALBER VIVIAN A/TRUSTEE

Co-Owner: VIVIAN A KALBER REVOCABLE TR

Mailing Address:

18 HAMILTON ROAD #301 ARLINGTON, MA 02474

Prop ID: 20.A-1-302

Prop Location: 18 HAMILTON RD UNIT 302 Arlington, MA

Owner: ESPOSITO PAUL

Co-Owner: Mailing Address: 776 MAIN STREET WAKEFIELD, MA 01880

Prop ID: 20.A-1-303

Prop Location: 18 HAMILTON RD UNIT 303 Arlington, MA

Owner: CROMER MACEDO LLC

Co-Owner: Mailing Address: 15 VIRGINIA ST SOMERVILLE, MA 02145

Prop ID: 20.A-1-304

Prop Location: 18 HAMILTON RD UNIT 304 Arlington, MA

Owner: ONEIL NANCY

Co-Owner: Mailing Address:

18 HAMILTON ROAD #304 ARLINGTON, MA 02474

Prop ID: 20.A-1-305

Prop Location: 18 HAMILTON RD UNIT 305 Arlington, MA

Owner: OWEN ELIZABETH M

Co-Owner: Mailing Address:

18 HAMILTON RD #305 ARLINGTON, MA 02474

Prop ID: 20.A-1-306

Prop Location: 18 HAMILTON RD UNIT 306 Arlington, MA

Owner: TORRESYAP GAY

Co-Owner: Mailing Address:

18 HAMILTON RD UNIT 306 ARLINGTON, MA 02474

Prop ID: 20.A-1-307

Prop Location: 18 HAMILTON RD UNIT 307 Arlington, MA

Owner: DOUGAN BARBARA J/ LIFE ESTATE

Co-Owner: Mailing Address: 18 HAMILTON ROAD

UNIT 307

ARLINGTON, MA 02474

Prop ID: 20.A-1-308

Prop Location: 18 HAMILTON RD UNIT 308 Arlington, MA

Owner: CLARK LINDA M/ TRUSTEE

Co-Owner: LINDA M CLARK REALTY TRUST

Mailing Address:

18 HAMILTON RD #308 ARLINGTON, MA 02474

Prop ID: 20.A-1-401

Prop Location: 18 HAMILTON RD UNIT 401 Arlington, MA

Owner: FINELLI ALYCE

Co-Owner: Mailing Address:

177 PEMBERTON ST UNIT 14 CAMBRIDGE, MA 02140

Prop ID: 20.A-1-402

Prop Location: 18 HAMILTON RD UNIT 402 Arlington, MA

Owner: LIU YANG Co-Owner: MIN YAO Mailing Address: 26 LEDGELAWN AVE LEXINGTON, MA 02420

Prop ID: 20.A-1-403

Prop Location: 18 HAMILTON RD UNIT 403 Arlington, MA

Owner: MEADOWS JULIE A

Co-Owner: Mailing Address:

18 HAMILTON ROAD #403 ARLINGTON, MA 02474 Prop ID: 20.A-1-404

Prop Location: 18 HAMILTON RD UNIT 404 Arlington, MA

Owner: KOLEV VIHREN N Co-Owner: KOLEVA ROSITSA

Mailing Address: 17 REED ST #1

ARLINGTON, MA 02474

Prop ID: 20.A-1-405

Prop Location: 18 HAMILTON RD UNIT 405 Arlington, MA

Owner: KWAK MICHELLE C

Co-Owner: Mailing Address: 511 TUMBLING HAWK ACTON, MA 01718

Prop ID: 20.A-1-406

Prop Location: 18 HAMILTON RD UNIT 406 Arlington, MA

Owner: MURPHY KATHERINE Co-Owner: HERBERT PATRICIA

Mailing Address:

18 HAMILTON RD #406 ARLINGTON, MA 02474

Prop ID: 20.A-1-407

Prop Location: 18 HAMILTON RD UNIT 407 Arlington, MA

Owner: WALSH LAUREN/ TRUSTEE Co-Owner: SPY POND CONDO TRUST

Mailing Address: 144 WHITE ST BELMONT, MA 02478

Prop ID: 20.A-1-408

Prop Location: 18 HAMILTON RD UNIT 408 Arlington, MA Owner: GOODMAN THEODORE & CHIKAKO/ TRS

Co-Owner: CHIKAKO GOODMAN REVOCABLE TR

Mailing Address:

18 HAMILTON RD UNIT 408 ARLINGTON, MA 02474

Prop ID: 20.A-1-501

Prop Location: 18 HAMILTON RD UNIT 501 Arlington, MA

Owner: MOREIRA JOSEPH

Co-Owner: Mailing Address:

18 HAMILTON ROAD #501 ARLINGTON, MA 02474

Prop ID: 20.A-1-502

Prop Location: 18 HAMILTON RD UNIT 502 Arlington, MA

Owner: KLEIN MARA L

Co-Owner: Mailing Address:

18 HAMILTON ROAD #502 ARLINGTON, MA 02474

Prop ID: 20.A-1-503

Prop Location: 18 HAMILTON RD UNIT 503 Arlington, MA

Owner: LAHAIE CLAUDETTE M

Co-Owner: Mailing Address: 83 SASSAFRAS ST WELLS, ME 04090

Prop ID: 20.A-1-504

Prop Location: 18 HAMILTON RD UNIT 504 Arlington, MA

Owner: COTRONEO VINCENZO

Co-Owner: Mailing Address:

18 HAMILTON RD #504 ARLINGTON, MA 02474

Prop ID: 20.A-1-505

Prop Location: 18 HAMILTON RD UNIT 505 Arlington, MA

Owner: GOYAL KAPISH

Co-Owner: Mailing Address: 858 POINT WAY VA BEACH, VA 23462

Prop ID: 20.A-1-506

Prop Location: 18 HAMILTON RD UNIT 506 Arlington, MA

Owner: TOPLIN HOLDEN & Co-Owner: YANG ZHENYAN

Mailing Address:

18 HAMILTON ROAD #506 ARLINGTON, MA 02474

Prop ID: 20.A-1-507

Prop Location: 18 HAMILTON RD UNIT 507 Arlington, MA

Owner: POST ARJAN

Co-Owner: Mailing Address:

18 HAMILTON ROAD #507 ARLINGTON, MA 02474

Prop ID: 20.A-1-508

Prop Location: 18 HAMILTON RD UNIT 508 Arlington, MA

Owner: OHN KIMBERLY

Co-Owner: Mailing Address: 18 HAMILTON RD **UNIT 508**

ARLINGTON, MA 02474

Prop ID: 20.A-2-101

Prop Location: 20 HAMILTON RD UNIT 101 Arlington, MA

Owner: PATEY SARA

Co-Owner: Mailing Address: 8 PARKER RD SHIRLEY, MA 01464

Prop ID: 20.A-2-102

Prop Location: 20 HAMILTON RD UNIT 102 Arlington, MA

Owner: SULLIVAN DIANE M

Co-Owner: Mailing Address:

20 HAMILTON RD #102 ARLINGTON, MA 02474

Prop ID: 20.A-2-103

Prop Location: 20 HAMILTON RD UNIT 103 Arlington, MA

Owner: BETTENCOURT MARIO S--ETAL Co-Owner: BETTENCOURT PAULA M

Mailing Address: 43 AMSDEN STREET ARLINGTON, MA 02474 Prop ID: 20.A-2-104

Prop Location: 20 HAMILTON RD UNIT 104 Arlington, MA

Owner: CARROLL THOMAS J JR/ TRUSTEE Co-Owner: MOCCIA IRREVOCABLE TRUST

Mailing Address: 132 ROBBINS RD ARLINGTON, MA 02476

Prop ID: 20.A-2-105

Prop Location: 22 HAMILTON RD UNIT 105 Arlington, MA

Owner: SEGRT JANKO Co-Owner: BOJANIC IRENA

Mailing Address: 115 BACON ST NATICK, MA 01760

Prop ID: 20.A-2-106

Prop Location: 22 HAMILTON RD UNIT 106 Arlington, MA

Owner: ZHAO LIJIAN Co-Owner: KANTOR MARK

Mailing Address: 75 BEVERLY RD ARLINGTON, MA 02474

Prop ID: 20.A-2-107

Prop Location: 22 HAMILTON RD UNIT 107 Arlington, MA

Owner: MARGOLIN BARRY W

Co-Owner: Mailing Address:

22 HAMILTON ROAD #107 ARLINGTON, MA 02474

Prop ID: 20.A-2-108

Prop Location: 22 HAMILTON RD UNIT 108 Arlington, MA

Owner: FUCHS DEBORAH

Co-Owner: Mailing Address: PO BOX 23

PETERSHAM, MA 01366

Prop ID: 20.A-2-201

Prop Location: 20 HAMILTON RD UNIT 201 Arlington, MA

Owner: O CONNOR WILLIAM J

Co-Owner: Mailing Address:

20 HAMILTON ROAD #201 ARLINGTON, MA 02474

Prop ID: 20.A-2-202

Prop Location: 20 HAMILTON RD UNIT 202 Arlington, MA

Owner: OBRIEN HAYLEY E

Co-Owner: Mailing Address:

20 HAMILTON ROAD #202 ARLINGTON, MA 02474

Prop ID: 20.A-2-203

Prop Location: 20 HAMILTON RD UNIT 203 Arlington, MA

Owner: SULLIVAN DIANE M Co-Owner: KNOTT FRANCES K

Mailing Address:

20 HAMILTON RD UNIT 102

56 of 221 ARLINGTON, MA 02474

Prop ID: 20.A-2-204

Prop Location: 20 HAMILTON RD UNIT 204 Arlington, MA

Owner: MATHIASEN KAREN

Co-Owner: Mailing Address:

20 HAMILTON ROAD #204 ARLINGTON, MA 02474

Prop ID: 20.A-2-205

Prop Location: 22 HAMILTON RD UNIT 205 Arlington, MA

Owner: HALLIDAY MARK

Co-Owner: Mailing Address: 54 BRANTWOOD RD ARLINGTON, MA 02476

Prop ID: 20.A-2-206

Prop Location: 22 HAMILTON RD UNIT 206 Arlington, MA

Owner: TINCH PETER M

Co-Owner: Mailing Address:

22 HAMILTON ROAD #206 ARLINGTON, MA 02474

Prop ID: 20.A-2-207

Prop Location: 22 HAMILTON RD UNIT 207 Arlington, MA

Owner: GARDNER P J

Co-Owner: Mailing Address:

22 HAMILTON ROAD #207 ARLINGTON, MA 02474

Prop ID: 20.A-2-208

Prop Location: 22 HAMILTON RD UNIT 208 Arlington, MA

Owner: CARROLL THOMAS J/CORINNE K

Co-Owner: Mailing Address: 132 ROBBINS RD ARLINGTON, MA 02476

Prop ID: 20.A-2-301

Prop Location: 20 HAMILTON RD UNIT 301 Arlington, MA

Owner: RANDOLPH ANNE

Co-Owner: Mailing Address:

20 HAMILTON ROAD #301 ARLINGTON, MA 02474

Prop ID: 20.A-2-302

Prop Location: 20 HAMILTON RD UNIT 302 Arlington, MA

Owner: BODNYA RAISA/LEONID/TRS

Co-Owner: BODNYA TRUST

Mailing Address:

20 HAMILTON ROAD #302 ARLINGTON, MA 02474

Prop ID: 20.A-2-303

Prop Location: 20 HAMILTON RD UNIT 303 Arlington, MA

Owner: ROCKLAND TRUST COMPANY/ TRS Co-Owner: ROCHELLE ANDREA WOLFE TRUST

Mailing Address:

2036 WASHINGTON ST HANOVER, MA 02339 Prop ID: 20.A-2-304

Prop Location: 20 HAMILTON RD UNIT 304 Arlington, MA

Owner: BROWN GERDA

Co-Owner: Mailing Address:

20 HAMILTON ROAD #304 ARLINGTON, MA 02474

Prop ID: 20.A-2-305

Prop Location: 22 HAMILTON RD UNIT 305 Arlington, MA

Owner: JACOBSON ALAN J

Co-Owner: Mailing Address:

225 COOLIDGE AVE #106 WATERTOWN, MA 02472

Prop ID: 20.A-2-306

Prop Location: 22 HAMILTON RD UNIT 306 Arlington, MA

Owner: SULLIVAN MARY F Co-Owner: C/O CONLIN

Mailing Address: 7 DEXTER ROAD WELLESLEY, MA 02482

Prop ID: 20.A-2-307

Prop Location: 22 HAMILTON RD UNIT 307 Arlington, MA

Owner: FAIOLA CAROL

Co-Owner: Mailing Address:

22 HAMILTON ROAD #307 ARLINGTON, MA 02474

Prop ID: 20.A-2-308

Prop Location: 22 HAMILTON RD UNIT 308 Arlington, MA

Owner: GILMAN LISA R

Co-Owner: Mailing Address:

22 HAMILTON ROAD #308 ARLINGTON, MA 02474

Prop ID: 20.A-2-401

Prop Location: 20 HAMILTON RD UNIT 401 Arlington, MA

Owner: FRASER ELIZABETH G

Co-Owner: Mailing Address:

20 HAMILTON RD #401 ARLINGTON, MA 02474

Prop ID: 20.A-2-402

Prop Location: 22 HAMILTON RD UNIT 402 Arlington, MA

Owner: LIEM SIOE L

Co-Owner: Mailing Address:

22 HAMILTON ROAD #402 ARLINGTON, MA 02474

Prop ID: 20.A-3-101

Prop Location: 30 HAMILTON RD UNIT 101 Arlington, MA

Owner: FOLEY DENNIS P

Co-Owner: Mailing Address:

30 HAMILTON RD #101

ARLINGTON, MA 02474

Prop ID: 20.A-3-102

Prop Location: 30 HAMILTON RD UNIT 102 Arlington, MA

Owner: LEUNG EILEEN Co-Owner: DO HIEN VAN

Mailing Address: 32 PILGRAM RD BELMONT, MA 02478

Prop ID: 20.A-3-103

Prop Location: 30 HAMILTON RD UNIT 103 Arlington, MA

Owner: YOU GO GIRL! LLC

Co-Owner: Mailing Address: 38 BOWDOIN ST

CAMBRIDGE, MA 02138

Prop ID: 20.A-3-104

Prop Location: 30 HAMILTON RD UNIT 104 Arlington, MA

Owner: BRASGO LLC

Co-Owner: Mailing Address: 17 BURROUGHS RD LEXINGTON, MA 02420

Prop ID: 20.A-3-105

Prop Location: 32 HAMILTON RD UNIT 105 Arlington, MA

Owner: ELLIS ELIZABETH ANN

Co-Owner: Mailing Address: 1337 MASS AVE #134 ARLINGTON, MA 02476

Prop ID: 20.A-3-106

Prop Location: 32 HAMILTON RD UNIT 106 Arlington, MA

Owner: FLETCHER WILLIAM B

Co-Owner: Mailing Address:

32 HAMILTON ROAD #106 ARLINGTON, MA 02474

Prop ID: 20.A-3-107

Prop Location: 32 HAMILTON RD UNIT 107 Arlington, MA

Owner: CUMMINS JOHN J JR & STACIA J/ Co-Owner: TRS/SUSAN J CUMMINS FAMILY

Mailing Address: 14 RADCLIFFE RD ARLINGTON, MA 02474

Prop ID: 20.A-3-108

Prop Location: 32 HAMILTON RD UNIT 108 Arlington, MA

Owner: MASON REBECCA

Co-Owner: Mailing Address:

32 HAMILTON RD UNIT 108 ARLINGTON, MA 02474

Prop ID: 20.A-3-201

Prop Location: 30 HAMILTON RD UNIT 201 Arlington, MA

Owner: TSERING LHAMO

Co-Owner: Mailing Address: 4 BRIDLE PATH SUDBURY, MA 01776 Prop ID: 20.A-3-202

Prop Location: 30 HAMILTON RD UNIT 202 Arlington, MA

Owner: LOUNKINE EUGEN & Co-Owner: WANG YUAN

Mailing Address:

30 HAMILTON RD UNIT 202 ARLINGTON, MA 02474

Prop ID: 20.A-3-203

Prop Location: 30 HAMILTON RD UNIT 203 Arlington, MA

Owner: O'DONNELL AGNES E & NICHOLAS Co-Owner: TRS/ AGNES E O'DONNELL 2017

Mailing Address:

30 HAMILTON RD #203 ARLINGTON, MA 02474

Prop ID: 20.A-3-204

Prop Location: 30 HAMILTON RD UNIT 204 Arlington, MA

Owner: MC CORMICK GAIL T/TRUSTEE Co-Owner: GAIL MC CORMICK TRUST

Mailing Address:

30 HAMILTON RD UNIT 204 ARLINGTON, MA 02474

Prop ID: 20.A-3-205

Prop Location: 32 HAMILTON RD UNIT 205 Arlington, MA

Owner: DE LEO JOSEPH F & Co-Owner: MANCA MARYBETH

Mailing Address: 188 DALTON RD BELMONT, MA 02478

Prop ID: 20.A-3-206

Prop Location: 32 HAMILTON RD UNIT 206 Arlington, MA

Owner: SELANDER NANCY

Co-Owner: Mailing Address:

32 HAMILTON RD #206 ARLINGTON, MA 02474

Prop ID: 20.A-3-207

Prop Location: 32 HAMILTON RD UNIT 207 Arlington, MA

Owner: SCHLEGEL FABRICE

Co-Owner: Mailing Address: 18 YERXA RD #2

CAMBRIDGE, MA 02140

Prop ID: 20.A-3-208

Prop Location: 32 HAMILTON RD UNIT 208 Arlington, MA

Owner: SNOW JEANNE J/TRUSTEE Co-Owner: JEANNE SNOW 2005 TRUST

Mailing Address:

32 HAMILTON ROAD #208 ARLINGTON, MA 02474

Prop ID: 20.A-3-301

Prop Location: 30 HAMILTON RD UNIT 301 Arlington, MA

Owner: CASO MICHAEL A

Co-Owner: Mailing Address:

30 HAMILTON ROAD #301

ARLINGTON, MA 02474

Prop ID: 20.A-3-302

Prop Location: 30 HAMILTON RD UNIT 302 Arlington, MA

Owner: CONSTABLE ROBERT

Co-Owner: Mailing Address:

343 CODDINGTON RD ITHACA, NY 14850

Prop ID: 20.A-3-303

Prop Location: 30 HAMILTON RD UNIT 303 Arlington, MA

Owner: LISCO THOMAS E

Co-Owner: Mailing Address:

30 HAMILTON ROAD #303 ARLINGTON, MA 02474

Prop ID: 20.A-3-304

Prop Location: 30 HAMILTON RD UNIT 304 Arlington, MA

Owner: SCRIBNER FRED C III

Co-Owner: Mailing Address: PO BOX 31

PORTLAND, ME 04112

Prop ID: 20.A-3-305

Prop Location: 32 HAMILTON RD UNIT 305 Arlington, MA

Owner: ABBOTT MARK F

Co-Owner: Mailing Address:

32 HAMILTON RD #305 ARLINGTON, MA 02476

Prop ID: 20.A-3-306

Prop Location: 32 HAMILTON RD UNIT 306 Arlington, MA

Owner: HUANG LI Co-Owner: Mailing Address:

32 HAMILTON ROAD #32-306 ARLINGTON, MA 02474

Prop ID: 20.A-3-307

Prop Location: 32 HAMILTON RD UNIT 307 Arlington, MA

Owner: CATALDO LILLIAN

Co-Owner: M/T CATALDO HENRY J

Mailing Address: 15R CHANDLER ST SOMERVILLE, MA 02144

Prop ID: 20.A-3-308

Prop Location: 32 HAMILTON RD UNIT 308 Arlington, MA

Owner: DIESING LOIS R / ETAL / TRS Co-Owner: LOIS R DIESING TRUST

Mailing Address:

32 HAMILTON ROAD #308 ARLINGTON, MA 02474

Prop ID: 20.A-3-401

Prop Location: 30 HAMILTON RD UNIT 401 Arlington, MA

Owner: TASHIRO MASAKAZU & YASUHISA

Co-Owner: Mailing Address: PO BOX 410042

EAST CAMBRIDGE, MA 02141

Prop ID: 20.A-3-402

Prop Location: 32 HAMILTON RD UNIT 402 Arlington, MA

Owner: GROSSMAN KAREN L

Co-Owner: Mailing Address:

32 HAMILTON ROAD #402 ARLINGTON, MA 02474

Prop ID: 20.A-4-101

Prop Location: 34 HAMILTON RD UNIT 101 Arlington, MA

Owner: VANDIVIER LEE ELLIOT Co-Owner: HSIAO MINGHUA

Mailing Address: 34 HAMILTON RD #101 ARLINGTON, MA 02474

Prop ID: 20.A-4-102

Prop Location: 34 HAMILTON RD UNIT 102 Arlington, MA

Owner: BETTS ALLISON

Co-Owner: Mailing Address:

5701 AVENIDA CHIQUITA NW ALBUQUERQUE, NM 87120

Prop ID: 20.A-4-103

Prop Location: 34 HAMILTON RD UNIT 103 Arlington, MA

Owner: CONROY KRISTINA M

Co-Owner: Mailing Address:

34 HAMILTON ROAD UNIT 103 ARLINGTON, MA 02474

Prop ID: 20.A-4-104

Prop Location: 34 HAMILTON RD UNIT 104 Arlington, MA

Owner: CHIVUKULA RAMAKRISHNA

Co-Owner: MALLAPRAGADA SOUJANYA G

Mailing Address: 21 BISHOP RD SHARON, MA 02067

Prop ID: 20.A-4-105

Prop Location: 34 HAMILTON RD UNIT 105 Arlington, MA

Owner: BRAIDA LOUIS D

Co-Owner: Mailing Address:

34 HAMILTON ROAD #105 ARLINGTON, MA 02474

Prop ID: 20.A-4-106

Prop Location: 34 HAMILTON RD UNIT 106 Arlington, MA

Owner: ALEXANDER ROBERT BRUCE

Co-Owner: HUANG ADRIAN

Mailing Address: 53 PAUL REVERE RD LEXINGTON, MA 02421

Prop ID: 20.A-4-107

Prop Location: 34 HAMILTON RD UNIT 107 Arlington, MA

Owner: BRAIDA LOUIS D

Co-Owner: Mailing Address: 34 HAMILTON ROAD UNIT 105

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ARLINGTON, MA 02474

Prop ID: 20.A-4-108

Prop Location: 34 HAMILTON RD UNIT 108 Arlington, MA

Owner: HUANG ADRIAN

Co-Owner: ALEXANDER ROBERT BRUCE

Mailing Address: 53 PAUL REVERE RD LEXINGTON, MA 02421

Prop ID: 20.A-4-109

Prop Location: 34 HAMILTON RD UNIT 109 Arlington, MA

Owner: BETTENCOURT MARIO & PAULA

Co-Owner: Mailing Address: 43 AMSDEN STREET ARLINGTON, MA 02474

Prop ID: 20.A-4-110

Prop Location: 34 HAMILTON RD UNIT 110 Arlington, MA

Owner: JOHNSON DEREK S

Co-Owner:
Mailing Address:

2393 LAKE SHORE ROAD #36

GILFORD, NH 03249

Prop ID: 20.A-4-201

Prop Location: 34 HAMILTON RD UNIT 201 Arlington, MA

Owner: FENNER MARGARET L

Co-Owner: Mailing Address:

34 HAMILTON ROAD #201 ARLINGTON, MA 02474

Prop ID: 20.A-4-202

Prop Location: 34 HAMILTON RD UNIT 202 Arlington, MA

Owner: SULLIVAN BRENDAN

Co-Owner: Mailing Address: 319 LAKE STREET ARLINGTON, MA 02476

Prop ID: 20.A-4-203

Prop Location: 34 HAMILTON RD UNIT 203 Arlington, MA

Owner: KANDILIAN FAGHARCH

Co-Owner: Mailing Address: 27 ESTABROOK RD LEXINGTON, MA 02421

Prop ID: 20.A-4-204

Prop Location: 34 HAMILTON RD UNIT 204 Arlington, MA

Owner: MUJAGIC NADIJA

Co-Owner:
Mailing Address:

935 BROADWAY UNIT 1 SOMERVILLE, MA 02144

Prop ID: 20.A-4-205

Prop Location: 34 HAMILTON RD UNIT 205 Arlington, MA

Owner: COLEMAN DIANA T

Co-Owner: Mailing Address:

1 RICHDALE AVE UNIT 12 CAMBRIDGE, MA 02140

Prop ID: 20.A-4-206

Prop Location: 34 HAMILTON RD UNIT 206 Arlington, MA

Owner: YANG XIAOQING Co-Owner: WU YECHENG

Mailing Address: 5 APPLETREE LN LEXINGTON, MA 02420

Prop ID: 20.A-4-207

Prop Location: 34 HAMILTON RD UNIT 207 Arlington, MA

Owner: COLEMAN DIANA T

Co-Owner: Mailing Address:

1 RICHDALE AVE UNIT 12 CAMBRIDGE, MA 02140

Prop ID: 20.A-4-208

Prop Location: 34 HAMILTON RD UNIT 208 Arlington, MA

Owner: WANG SEN & Co-Owner: XU HONGQIANG

Mailing Address:

34 HAMILTON RD #208 ARLINGTON, MA 02474

Prop ID: 20.A-4-209

Prop Location: 34 HAMILTON RD UNIT 209 Arlington, MA

Owner: REARDON WILLIAM F JR/TRUSTEE

Co-Owner: 34-209 REALTY TRUST

Mailing Address:

34 HAMILTON RD UNIT 209 ARLINGTON, MA 02474

Prop ID: 20.A-4-210

Prop Location: 34 HAMILTON RD UNIT 210 Arlington, MA

Owner: SUBRAMANIAN BALACHUNDHAR Co-Owner: SACHITHANANDHAM KALPANA

Mailing Address:

34 HAMILTON RD # 210 ARLINGTON, MA 02474

Prop ID: 20.A-4-301

Prop Location: 34 HAMILTON RD UNIT 301 Arlington, MA

Owner: JOLKOVSKI ROBERT M

Co-Owner: Mailing Address:

34 HAMILTON ROAD #301 ARLINGTON, MA 02474

Prop ID: 20.A-4-302

Prop Location: 34 HAMILTON RD UNIT 302 Arlington, MA

Owner: YANUSHPOLSKY MIRAM FEIGA & Co-Owner: JOSEPH & SHAUMYAN GALINA/TR

Mailing Address:

34 HAMILTON ROAD #302 ARLINGTON, MA 02474

Prop ID: 20.A-4-303

Prop Location: 34 HAMILTON RD UNIT 303 Arlington, MA

Owner: NAGAYAMA KEIKO

Co-Owner: Mailing Address:

34 HAMILTON RD #303

ARLINGTON, MA 02474

Prop ID: 20.A-4-304

Prop Location: 34 HAMILTON RD UNIT 304 Arlington, MA

Owner: POURALI SHAHRAM

Co-Owner: Mailing Address:

34 HAMILTON ROAD #304 ARLINGTON, MA 02474

Prop ID: 20.A-4-305

Prop Location: 34 HAMILTON RD UNIT 305 Arlington, MA

Owner: MITCHELL A. KATALIN

Co-Owner: Mailing Address: 169 CENTRAL ST

FRAMINGHAM, MA 01701

Prop ID: 20.A-4-306

Prop Location: 34 HAMILTON RD UNIT 306 Arlington, MA

Owner: BRETON JOSEPH F & JOAN M

Co-Owner: Mailing Address: 24 MIDLAND DRIVE WALTHAM, MA 02451

Prop ID: 20.A-4-307

Prop Location: 34 HAMILTON RD UNIT 307 Arlington, MA

Owner: MOLINA LIZA

Co-Owner: PHILLIPS THOMAS

Mailing Address:

34 HAMILTON RD # 307 ARLINGTON, MA 02474

Prop ID: 20.A-4-308

Prop Location: 34 HAMILTON RD UNIT 308 Arlington, MA

Owner: BYRON PAMELA D

Co-Owner: Mailing Address:

34 HAMILTON ROAD #308 ARLINGTON, MA 02474

Prop ID: 20.A-4-309

Prop Location: 34 HAMILTON RD UNIT 309 Arlington, MA

Owner: ALEXIOU ALICE SPARBERG Co-Owner: ALEXIOU NICHOLAS D

Mailing Address:

140 WEST END AVE APT 20C NEW YORK, NY 10023

Prop ID: 20.A-4-310

Prop Location: 34 HAMILTON RD UNIT 310 Arlington, MA

Owner: THE 2005 C & J LLC

Co-Owner: Mailing Address: 1 CHURCHILL PLACE ARLINGTON, MA 02476

Prop ID: 20.A-4-401

Prop Location: 34 HAMILTON RD UNIT 401 Arlington, MA

Owner: BLUMENTHAL ELIZABETH A

Co-Owner: Mailing Address:

34 HAMILTON ROAD #401 ARLINGTON, MA 02474 Prop ID: 20.A-4-402

Prop Location: 34 HAMILTON RD UNIT 402 Arlington, MA

Owner: LOPRESTE FRANK A JR

Co-Owner: Mailing Address: 32 MCGINNESS WAY BILLERICA, MA 01821

Prop ID: 20.A-4-403

Prop Location: 34 HAMILTON RD UNIT 403 Arlington, MA

Owner: FENNER MARGARET

Co-Owner: Mailing Address:

34 HAMILTON RD # 201 ARLINGTON, MA 02474

Prop ID: 20.A-4-404

Prop Location: 34 HAMILTON RD UNIT 404 Arlington, MA

Owner: CORNELL JOANNE

Co-Owner:
Mailing Address:

34 HAMILTON ROAD #404 ARLINGTON, MA 02474

Prop ID: 20.A-4-405

Prop Location: 34 HAMILTON RD UNIT 405 Arlington, MA

Owner: MIGHILL CHARLES T--ETAL Co-Owner: GILSON CHARLOTTE

Mailing Address:

34 HAMILTON ROAD #405 ARLINGTON, MA 02474

Prop ID: 20.A-4-406

Prop Location: 34 HAMILTON RD UNIT 406 Arlington, MA

Owner: SWITZER SHARON C

Co-Owner: Mailing Address:

34 HAMILTON ROAD #406 ARLINGTON, MA 02474

Prop ID: 20.A-4-407

Prop Location: 34 HAMILTON RD UNIT 407 Arlington, MA

Owner: LOW UTA MARION

Co-Owner: Mailing Address:

34 HAMILTON ROAD #407 ARLINGTON, MA 02474

Prop ID: 20.A-4-408

Prop Location: 34 HAMILTON RD UNIT 408 Arlington, MA

Owner: SHAKYA MAHENDRA & SUBARNA

Co-Owner: Mailing Address: 544 PRENTICE ST HOLLISTON, MA 01746

Prop ID: 20.A-4-409

Prop Location: 34 HAMILTON RD UNIT 409 Arlington, MA

Owner: KLEPPNER PAUL S Co-Owner: MUI LINDA P

Mailing Address: 213 FOLLEN ROAD LEXINGTON, MA 02421

Prop ID: 20.A-4-410

Prop Location: 34 HAMILTON RD UNIT 410 Arlington, MA

Owner: DOLHARE VISHAKHA

Co-Owner: Mailing Address:

30 CAMBRIDGEPARK DR

UNIT 3107

CAMBRIDGE, MA 02140

Prop ID: 20.A-4-501

Prop Location: 34 HAMILTON RD UNIT 501 Arlington, MA

Owner: ZHAO QIN Co-Owner: YU BEI Mailing Address: 17 CLELLAND RD LEXINGTON, MA 02421

Prop ID: 20.A-4-502

Prop Location: 34 HAMILTON RD UNIT 502 Arlington, MA

Owner: HARE BRIAN J

Co-Owner: NARDONE JULIE M

Mailing Address:

34 HAMILTON RD #502 ARLINGTON, MA 02474

Prop ID: 20.A-4-503

Prop Location: 34 HAMILTON RD UNIT 503 Arlington, MA

Owner: SHUTE PRISCILLA E

Co-Owner: Mailing Address:

34 HAMILTON ROAD #503 ARLINGTON, MA 02474

Prop ID: 20.A-4-504

Prop Location: 34 HAMILTON RD UNIT 504 Arlington, MA

Owner: HARRIS MATTHEW J

Co-Owner: Mailing Address:

34 HAMILTON RD UNIT 504 ARLINGTON, MA 02474

Prop ID: 20.A-4-505

Prop Location: 34 HAMILTON RD UNIT 505 Arlington, MA

Owner: FABIANO JOHN G/ TRUSTEE

Co-Owner: JEROME P FACHER REVOCABLE TRUS

Mailing Address: 31 HOMEWOOD RD WABAN, MA 02468

Prop ID: 20.A-4-506

Prop Location: 34 HAMILTON RD UNIT 506 Arlington, MA

Owner: EWINS GEORGE D JR ETAL /TRS

Co-Owner: ELIZABETH I EWINS SUPPLEMENTAL

Mailing Address:

2979 GREENBUSH RD CHARLOTTE, VT 05445

Prop ID: 20.A-4-507

Prop Location: 34 HAMILTON RD UNIT 507 Arlington, MA

Owner: ANDERSON ERIC HALL/ TRUSTEE

Co-Owner: ERIC HALL ANDERSON TRUST- 2019

Mailing Address:

34 HAMILTON ROAD #507 ARLINGTON, MA 02474 Prop ID: 20.A-4-508

Prop Location: 34 HAMILTON RD UNIT 508 Arlington, MA

Owner: RAPARTHI LALITHA

Co-Owner: VIRUPAKSHA RAPARTHI

Mailing Address:

34 HAMILTON RD UNIT 508 ARLINGTON, MA 02474

Prop ID: 20.A-4-509

Prop Location: 34 HAMILTON RD UNIT 509 Arlington, MA

Owner: FESKO COLLEENE TRUSTEE Co-Owner: 34 HAMILTON ROAD TRUST

Mailing Address:

34 HAMILTON ROAD #509 ARLINGTON, MA 02474

Prop ID: 20.A-4-510

Prop Location: 34 HAMILTON RD UNIT 510 Arlington, MA

Owner: JUROW KATHLEEN A

Co-Owner: Mailing Address: 12 CARVER STREET SOMERVILLE, MA 02143

Prop ID: 21-2-1

Prop Location: 16 SPY POND PKWY Arlington, MA

Owner: SRIDHAR SRAVISH Co-Owner: SRAVISH AKHILA

Mailing Address: 16 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 21-2-2.A

Prop Location: 18 SPY POND PKWY Arlington, MA

Owner: ONEILL EUGENE F/ LIFE ESTATE

Co-Owner: Mailing Address: 18 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 21-2-3

Prop Location: 22 SPY POND PKWY Arlington, MA

Owner: ROSS FRANCES M Co-Owner: BATTUELLO BRIAN V

Mailing Address: 22 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 21-2-4

Prop Location: 26 SPY POND PKWY Arlington, MA

Owner: CHHABRA SAMIT & ANN M

Co-Owner: Mailing Address: 26 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 21-2-5

Prop Location: 30 SPY POND PKWY Arlington, MA

Owner: MC CANN JOHN J & MARY A

Co-Owner: Mailing Address: 30 SPY POND PKWY ARLINGTON, MA 02474

Prop ID: 7-5-1

Prop Location: 45-45A LAKEHILL AVE Arlington, MA

Owner: LIU ZIJIE

Co-Owner: LUO XIANGLING

Mailing Address: 45 LAKEHILL AVE ARLINGTON, MA 02474

Prop ID: 7-6-1

Prop Location: 46-48 LAKEHILL AVE Arlington, MA

Owner: PEDRELLI NINO

Co-Owner: BRASHEARS BRUNA

Mailing Address:

3755 ĞLENHURST AVE SOUTH ST LOUIS PARK, MN 55416

Prop ID: 7-6-2

Prop Location: 42-44 LAKEHILL AVE Arlington, MA

Owner: DOANE JOAN S

Co-Owner: Mailing Address: 42 LAKEHILL AVE ARLINGTON, MA 02474

Prop ID: 7-6-25

Prop Location: 39 ALFRED RD Arlington, MA

Owner: GERA LIVIO J & GLORIA L

Co-Owner: TRUSTEES/LIVIO GERA TRUST

Mailing Address: 39 ALFRED RD

ARLINGTON, MA 02474

Prop ID: 7-6-26

Prop Location: 2-4 PRINCETON RD Arlington, MA

Owner: KOPANS DAVID B/LAUREN SUE

Co-Owner: Mailing Address: 2 PRINCETON ROAD ARLINGTON, MA 02474

Prop ID: 7-7-1

Prop Location: 0-LOT SPY POND PKWY Arlington, MA

Owner: PEDRELLI BRUNO & THELIA

Co-Owner: Mailing Address:

3755 GLENHURST AVE SOUTH ST LOUIS PARK, MN 55416

Prop ID: 7-7-2

Prop Location: 0-LOT SPY POND PKWY Arlington, MA

Owner: PEDRELLI BRUNO & THELIA

Co-Owner: Mailing Address:

3755 GLENHURST AVE SOUTH ST LOUIS PARK, MN 55416

Prop ID: 7-7-3

Prop Location: 0-LOT SPY POND PKWY Arlington, MA

Owner: KOPANS DAVID P/LAUREN SUE

Co-Owner: Mailing Address: 2 PRINCETON ROAD ARLINGTON, MA 02474 Prop ID: 9-3-3

Prop Location: 0-LOT POND LN Arlington, MA

Owner: TOWN OF ARLINGTON PARK

Co-Owner: Mailing Address: 730 MASS AVE

ARLINGTON, MA 02476

Prop ID: 9-4-1

Prop Location: 0-LOT POND LN Arlington, MA

Owner: TOWN OF ARLINGTON PARK

Co-Owner: Mailing Address: 730 MASS AVE

ARLINGTON, MA 02476

Notification to Abutters Under the Massachusetts Wetlands Protection Act And Arlington Wetlands Protection Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the Arlington Wetlands Protection Bylaw, you are hereby notified of the following:

The Arlington Conservation Commission will hold a public hearing **via Zoom or** in the second floor conference room of the Town Hall Annex, 730 Massachusetts Avenue, Arlington, on <u>Thursday</u>, <u>June 3</u>, <u>2021</u>, at or after <u>7 pm</u> in accordance with the provisions of the Mass. Wetlands Protection Act (M.G.L. Ch. 131, s. 40, as amended) and the Town of Arlington By-Laws Article 8, By-Law for Wetland Protection, for a Notice of Intent from the <u>Town of Arlington Conservation Commission</u> for <u>an Aquatic Management Program to control nuisance and non-native plant and algae growth</u> at <u>Spy Pond</u>, within 100 feet of a wetland.

A copy of the application and accompanying plans are available for inspection Mon. – Fri. 8am-Noon at the Conservation Commission office, first floor of the Town Hall Annex, 730 Massachusetts Avenue and by contacting the applicant's representative, SOLitude Lake Management at (508) 865-1000 or info@solitudelake.com

For more information, call the Arlington Conservation Commission at (781) 316-3012, or SOLitude Lake Management at (508) 865-1000, or DEP Northeast Regional Office, (978) 694-3200.

NOTE: Notice of the Public Hearing will be published at least five (5) days in advance in *The Arlington Advocate* and be posted not less than 48 hours in advance in the Arlington Town Hall.

APPENDIX 5

AFFIDAVIT OF SERVICE

(Return to Conservation Commission)

I, <u>Amanda Mahaney</u> , being duly sworn, do hereby state as follows: on <u>May 20, 2021</u> , I mailed a "Notification to Abutters"			
in compliance with the second paragraph of Massachusetts General Laws, Chapter 131, s.40, the DEP Guide to Abutter			
Notification dated April 8, 1994, and the Arlington Wetlands Protection Bylaw, Title V, Article 8 of the Town of Arlington Bylaws			
in connection with the following matter:			
The form of the notification, and a list of the abutters to whom it was provided and their addresses, are attached to this Affidavit of			
Service.			
Signed under the pains and penalties of perjury, this _20_ day of,			
Amanda Mahaney Name			
Name U			

APPENDIX 6

LEGAL NOTICE CHARGE AUTHORIZATION

DATE:	
TO: le	egals@wickedlocal.com
I hereby a	uthorize Community Newspapers to bill me directly for the legal notice to
be publish	ned in the Arlington Advocate newspaper on June 3, 2021 for a public
hearing w	ith the Arlington Conservation Commission to review a project at the
following	location: Spy Pond
Thank you	1.
Signed:	
Send bill t	to: Arlington Conservation Commission 730 Mass Ave Arlington, MA 02476
	Phone:

To: The Environmental Monitor

From: SOLitude Lake Management

Date: May 5, 2021

Re: Notification of filing an NOI for Spy Pond

Anticipated date of submission: May 20, 2021

The proposed project is seeking approval to initiate an Aquatic Management Program at Spy Pond in Arlington, MA. USEPA/State registered herbicides and/or algaecides will be applied to manage non-native and nuisance aquatic vegetation and algae to protect the interests of the Wetlands Protection Act by impeding eutrophication and improving habitat value.

Reviewing Conservation Commission(s):

Arlington Conservation Commission Town Hall 730 Massachusetts Avenue Arlington, MA 02476

Copies of the NOI may be examined or acquired from the Conservation Commission, or by contacting the applicant's representative, SOLitude Lake Management, info@solitudelake.com, or 508-865-1000, Monday and Friday between 9AM and 4PM.

See Conservation Commission website for the meeting schedule for exact dates and agendas.

		ATTACHMENT B
	Project Description	
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1.0 INTRODUCTION

The "Applicant", the Town of Arlington Conservation Commission, is seeking approval to continue an Aquatic Management Program at Spy Pond. The objective of the management program is to control growth of submersed, non-native aquatic plant species, most notably Curly-leaf Pondweed (Potamogeton crispus), spiny naiad (Najas minor), and with potential for significant return- Eurasian Watermilfoil (Myriophyllum spicatum), to maintain open water habitat, improve water quality, promote growth of less pervasive native plant species and provide safe recreational access to the pond. Based on the type, distribution and density of nuisance species in Spy Pond, it has been concluded the restoration goals of the Applicant can best be achieved through the prudent use of monitoring, hand-pulling, diver-assisted suction harvesting (DASH), and US EPA/MDAR registered herbicides/algaecides.

The proposed project has been filed as an Ecological Restoration Limited Project under 310 CMR 10.53(4) and will protect the interest of the Wetland Protection Act by controlling invasive species, improving fish habitat, improving water quality and slowing lake eutrophication.¹



2.0 PROBLEM STATEMENT

Spy Pond is a 102-acre waterbody located in Arlington, MA (Figure 1). The lake is a glaciated "kettle hole" waterbody separated by an uninhabited island; the average depth is 14 feet with the deepest point of 38 feet in the northern basin. The pond has a large littoral area that supports extensive growth of non-native and native submersed vegetation. When unmanaged, dense, topped-out aquatic plant growth is out-competing and displacing beneficial native species, degrading water quality and fish/wildlife habitat, and reducing recreational access to the lake. Elevated phosphorus levels in Spy

¹ Department of Environmental Protection. Guidance for Aquatic Plant Management in Lake and Ponds as it Relates to the Wetlands Protection Act: April 2004, 1p.

Pond have been known to cause nuisance algal blooms, most concerning of which is cyanobacteria (blue-green algae) and may again require management with alum or necessitate management of blooms with algaecides. Based on the goals of the Applicant, a management program using monitoring, hand-pulling, DASH, and chemical treatment with US EPA / MDAR approved herbicides and algaecides to control the nuisance plant and algae species to restore and maintain open-water conditions and maintain desirable water quality.

Since 1999, management and monitoring of invasive plants has been performed at Spy Pond. Diquat, fluridone, and glyphosate have been the primary herbicides used at the pond and were applied, to varying degrees, between 1999 and 2020. The pond was also treated in 2004 with buffered alum to manage phosphorus levels which resulted in improved water clarity and reduced algal growth.

3.0 SITE DESCRIPTION

Spy Pond ²	
Surface Area (acres)	102
Est. Average Depth (feet)	14
Maximum Reported Depth (feet)	38
Estimated Volume	1428 ac-ft. (465 million gal.)
Dominant Plant Species	Eurasian watermilfoil Curly-leaf pondweed Thin-leaf pondweed Common reed Stonewort (Macro-alga) Spiny Naiad

Due to its nature as a "kettle hole" pond, there is no regularly flowing inlet. A number of storm drains discharge directly to the pond. The outlet is located in the southern end, leading to Little Pond and the Alewife River. The shoreline of Spy Pond supports moderate to extensive residential development and the lake is widely used for fishing, boating, and passive wildlife viewing.

4.0 EXISTING CONDITIONS

A survey of the lake and its current condition was performed in May 2020 (Figure 3). At the time of this survey, the pond supported sparse vegetation throughout the littoral zone, the result of a fluridone treatment in 2020 to reduce dense growth of various aquatic invasive plant species, but specifically Eurasian watermilfoil, curly-leaf pondweed and spiny naiad (Figure 4). Numerous other submersed vegetation species were also present scattered throughout the pond, including thin-leaf pondweed (*Potamogeton pusillus*), sago pondweed (*Stuckenia pectinata*), and coontail (*Ceratophyllum demersum*). The pond shoreline also exhibits growth of non-native common reed (*Phragmites australis*) which has been managed in the past.

² Estimates based on observed and reported conditions



5.0 IN-LAKE MANAGEMENT RECOMMENDATIONS

5.1 Program Overview:

Multiple-year approval is requested for the continuation of the successful Aquatic Management Program at Spy Pond. The goal of the management program is to control growth of invasive, non-native and other nuisance plant species to improve and maintain open water habitat, promote growth of less pervasive plant species and provide safe recreational access to the lake with the use of US EPA / MDAR registered aquatic herbicides or other Best Management Practices (BMPs). Based on the chemistry of the proposed products, along with the chemical dose, timing and method of application, these herbicides can be reasonably selective for the targeted plant species with a negligible risk to non-target organisms when used in accordance with their USEPA approved labels. These products, coupled with non-chemical options (when applicable and feasible), will provide Spy Pond with an integrated management program to successfully continue the progress that has been made through past years of management. The management program has been developed to be compatible with the goals of the property owners keeping in mind the regulatory responsibilities of the Arlington Conservation Commission and the MA DEP.

Specifically, we are requesting approval to use of Reward/Tribune (diquat), ProcellaCOR EC (florpyrauxifen-benzyl), Sonar (fluridone), AquaPro (glyphosate), and Clearcast (imazamox) herbicides to control growth of nuisance plants, as well as copper-based algaecides (i.e. CUSO4, Captain, SeClear) and buffered alum to control phosphorus and algal blooms. Physical management techniques such as hand-harvesting, and diver-assisted suction harvesting (DASH) are requested as a non-chemical management technique to manage small areas of invasive species (when applicable).

The proposed products specifically affect the target plant (and algae) species to be controlled and have a negligible effect on the non-target species and wildlife when applied in accordance with the label directions. All chemicals are applied at or below suggested doses according to the product label. In addition, doses are based on plant types and densities so that a minimum amount of the chemicals are introduced into the lake.

No significant alteration to wetland resources areas will occur as a result of the proposed lake management program; instead the resource areas will be enhanced by controlling a non-native, invasive aquatic plant species and improving water quality.

5.2 Proposed Products

Florpyrauxifen-benzyl (ProcellaCOR EC - EPA # 67690-80 or equivalent)

ProcellaCOR (florpyrauxifen-benzyl) is a recently registered herbicide in Massachusetts and is an effective, systemic herbicide on milfoil, hydrilla, and emergent species.

The herbicide will be applied to the area at or below the permissible label dose. Due to the limited contact-exposure time required for control of the target species, concentrations only need to be maintained for hours to several days to achieve management. Temporary water-use restrictions for ProcellaCOR include no non-agricultural irrigation to vegetation other than turf according to Table on product label (6 hours to 35 days) – at rates used in the Northeast, this restriction is typically 2-7 days and can be determined based on post-treatment herbicide residue sampling. There are no restrictions on swimming, boating, or fishing, but prudent herbicide/algaecide management suggests that we close



the waterbody on the day of treatment. The shoreline of the waterbody will be posted with signs warning of these temporary water-use restrictions, prior to treatment.

The herbicide is quickly absorbed by the target vegetation and translocated within the plant. The mode of action of the herbicide causes impacted vegetation to lose structural integrity at growth nodes. Residual levels of the herbicide in treated water decline rapidly and reduction is due to the uptake by the targeted vegetation and degradation.

The use rates for ProcellaCOR is 200-400 times lower than older chemistry formulations, achieving a Reduced Risk Classification by the USEPA. Excellent selectivity and minimal impact to non-target species has been demonstrated with ProcellaCOR treatments that have been performed in the Northeast to date (approximately 100). Of the species reported in Spy Pond, the only plants that may show some impact following treatment is coontail (*Ceratophyllum demersum*). Coontail is typically not impacted by ProcellaCOR treatments except when using rates of 4+ PDUs/ac-ft.

Impacts Specific to the Wetlands Protection Act using Florpyrauxifen-benzyl

- Protection of public and private water supply Neutral (no significant interaction)
- <u>Protection of groundwater supply</u> Generally neutral (no interaction)
- Flood control Neutral (no significant interaction)
- <u>Storm damage prevention</u> Neutral (no significant interaction)
- <u>Prevention of pollution</u> Generally neutral (no significant interaction), but could be a
 detriment if plant die-off causes low oxygen at the bottom of the lake
- <u>Protection of land containing shellfish</u> Generally neutral (no significant interaction), but reduced algae might reduce food resources for shellfish, and direct toxicity is possible under unusual circumstances
- <u>Protection of fisheries</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)
- <u>Protection of wildlife habitat</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)

Diquat (Reward - EPA # 100-1091 or equivalent)

The USEPA/MA registered herbicide diquat dibromide will be applied to the area at or below the permissible label dose. Reward is a widely used herbicide, applied to greater than 500 lakes and ponds annually, throughout the northeast, to control nuisance submersed aquatic plants. Diquat would be applied to control nuisance submersed plant growth at the application rate of 1.0-2.0 gal/acre, if necessary. Temporary water use restrictions for diquat are: 1) No drinking or cooking for 3 days. 2) No irrigation of turf for 3 days and of food crops for 5 days, and 3) No livestock watering for 1 day. There are no restrictions on swimming, boating, or fishing, but prudent herbicide/algaecide management suggests that we close the lake on the day of treatment. The shoreline of the lake will be posted with signs warning of these temporary water use restrictions, prior to treatment.

Diquat is translocated to some extent within the plant. Its rapid action tends to disrupt the leaf cuticle of plants and acts by interfering with photosynthesis. Upon contact with the soil, it is absorbed immediately and thereby biologically inactivated. Residual levels of diquat in treated water decline rapidly and their reduction is due to the uptake by the targeted vegetation and adsorption to suspended soil particles in the water or on the bottom mud. Photochemical degradation accounts for some loss under conditions of high sunlight and clear waters.



Impacts Specific to the Wetlands Protection Act using Diquat³

- Protection of public and private water supply Benefit (water quality improvement)
- <u>Protection of groundwater supply</u> Neutral no interaction as diquat is absorbed to soil particles
- Flood control Neutral (no significant interaction)
- <u>Storm damage prevention</u> Neutral (no significant interaction)
- <u>Prevention of pollution</u> Generally neutral (no significant interaction), but could be a detriment if plant die-off causes low oxygen at the bottom of the lake
- <u>Protection of land containing shellfish</u> Generally neutral (no significant interaction), but reduced algae might reduce food resources for shellfish, and direst toxicity is possible under unusual circumstances
- <u>Protection of fisheries</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)
- <u>Protection of wildlife habitat</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)

Glyphosate (AquaPro – EPA #62719-324-67690 or equivalent)

Glyphosate is a systemic herbicide that offers excellent long-term control of invasive emergent vegetation species such as Phragmites in Spy Pond. This herbicide is foliar active, which means its chemical ingredient is active only on contact with the plant. Therefore, this chemical must be applied to the dry leaves, upon which it is translocated down into the rhizomes of the plant. Glyphosate is absorbed by plant foliage and moves throughout plant tissues. Once inside the plant, glyphosate interrupts the plant's ability to produce a protein it needs to live; thereby, resulting in effective long-term control. For invasive emergent vegetation species, Common Reed, this chemical is applied in the late summer/fall when nutrients are transferred into the root system and mid to late July/ prior to seed formation, respectively.

Glyphosate will be applied at or below the recommended Federal/State concentration of 3 quarts/acre. This product will be placed into a mixing tank with a surfactant (Cide-kick; d'limonene and related isomers plus selected emulsifiers); this surfactant ensures adhesion to the foliar portions of the plant. This mixture will be diluted with fresh pond water. Application varies based on target species. All applications will be timed with calm weather when wind gusts are less than five miles per hour to ensure no herbicide drift effects surrounding beneficial flora. The treatment will also be timed to ensure that a rain event will not occur within eight hours of the treatment. This herbicide binds tightly to the soil and has no activity in surrounding water; therefore, there is low potential for leaching and contamination of groundwater. Furthermore, this herbicide is quickly broken down by microorganisms in the soil.

There are no water use restrictions associated with the use of glyphosate other than no-treatment within ¼ of a mile (1320-ft) of potable water intakes. Although there are no restrictions on swimming, boating or fishing, prudent use suggests that we close the pond on the day of treatment. The shoreline of the lake will be posted with signs warning of these temporary water uses restrictions, prior to treatment.

³ Commonwealth of Massachusetts Executive Office of Environmental Affairs. Practical Guide to Lake Management: 2004. 124 p.



Impacts Specific to the Wetlands Protection Act using Glyphosate⁴

- <u>Protection of public and private water supply</u> Detriment (prohibition within one quarter mile of surface water supplies due to toxicity), but generally neutral where allowed
- <u>Protection of groundwater supply</u> Neutral (no interaction)
- Flood control & Storm damage prevention Neutral (no significant interaction)
- <u>Prevention of pollution</u> Generally neutral (no significant interaction), but could be a detriment if plant die-off causes low oxygen at the bottom of the pond
- <u>Protection of land containing shellfish</u> Neutral (no significant interaction)
- <u>Protection of fisheries</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)
- <u>Protection of wildlife habitat</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)

Fluridone (Sonar – EPA # 67690-4 or equivalent)

Fluridone is a systemic herbicide that offers long-term control on invasive and nuisance aquatic vegetation in Spy Pond. This herbicide hinders the ability of susceptible plants to produce carotene which protects chlorophyll from photodegradation, which results in mortality and subsequent long-term control of the targeted species (i.e., directly impacts the standing population and prevents future spread). This process is known as chlorosis and may be observed visually as the plant begins to lose its green color and take on a white or pink shade. Fluridone requires an extended contact time (45-60) so it has historically been used for low-dose, whole-pond treatments where dilution and contact time are more predictable, however, new granular formulations do allow for more effective spot-treatment.

Fluridone when applied at recommended dosages is generally viewed as having one of the most environmentally friendly toxicology profiles of all products currently on the market. In fact, the US EPA has approved a limit of 150 ppb to be allowed in water used for drinking, which is also the maximum application rate for waterbodies 10 acres and larger, such Spy Pond. Ideally, fluridone treatments are initiated early in the growing season when target vegetation is low or starting emergence. Presently, liquid and granular formations of this herbicide are available and included under this management plan. For aqueous applications, this chemical will be placed into an onboard mixing tank, mixed with pond water and evenly distributed throughout the surface of the treatment area via boat. This herbicide will be injected under the water surface through trailing hoses, minimizing the chance of chemical drift and assuring accurate placement of over the target species. For granular applications, the herbicide will be placed into a Herd spreader mounted to the bow of the treatment vessel and evenly distributed over the surface of the treatment area. If used at Spy Pond, the target rate would likely be <20 ppb which is significantly below the maximum labeled rate.

Fluridone water use restrictions include no application within one-quarter mile of a potable water intake and no use of treated water for irrigation purposes within 30 days of application. Although there are no restrictions on swimming, boating or fishing, prudent use suggests that we close the pond on the day of treatment. The shoreline of the pond will be posted with signs warning of these temporary water uses restrictions, prior to treatment.

⁴ Commonwealth of Massachusetts Executive Office of Environmental Affairs. Practical Guide to Lake Management: 2004. 128 p.



Impacts Specific to the Wetlands Protection Act using Fluridone⁵

- <u>Protection of public and private water supply</u> Generally neutral, but may have detriment at high doses (prohibition within 0.25-mi. of drinking water intakes at doses >20 ppb)
- <u>Protection of groundwater supply</u> Generally neutral (no significant interaction)
- <u>Storm damage prevention</u> Neutral (no significant interaction)
- <u>Prevention of pollution</u> Generally neutral (no significant interaction)
- <u>Protection of land containing shellfish</u> Generally neutral (no significant interaction)
- <u>Protection of fisheries</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)
- <u>Protection of wildlife habitat</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)

Imazamox (Clearcast - EPA # 241-437-67690)

The USEPA/MA registered herbicide Imazamox will be applied to the area at or below the permissible label dose. It has been utilized to manage submersed, floating-leaf, and emergent vegetation. Imazamox would be applied foliarly to control invasive Phragmites or water chestnut growth at the application rate of 1.5 lbs ae/acre, if necessary. Temporary water use restrictions for Imazamox are: 1) No drinking or cooking until residue testing results are below 50 ppb, 2) No irrigation until concentrations are below 50 ppb. There are no restrictions on swimming, boating, fishing, watering of livestock, or domestic use, but prudent herbicide/algaecide management suggest that we close the pond on the day of treatment. The shoreline of the pond will be posted with signs warning of these temporary water use restrictions prior to treatment.

Imazamox is a systemic herbicide. When applied as a foliar spray, it is quickly absorbed by foliage and/or plant roots and rapidly translocated to the growing points stopping growth. The concentrated herbicide is diluted with pond water onboard the treatment vessel and applied to the water chestnut leaves floating on the water's surface via a low-volume pumping system. A spray adjuvant will be mixed with the diluted herbicide to improve efficacy.

Impacts Specific to the Wetlands Protection Act using Imazamox

- <u>Protection of public and private water supply</u> Generally neutral, but may have detriment at high doses (setback of treatment required, with distance based on dose and area treated)
- <u>Protection of groundwater supply</u> Neutral (no interaction as imazamox is absorbed to soil particles)
- Flood control Neutral (no significant interaction)
- <u>Storm damage prevention</u> Neutral (no significant interaction)
- <u>Prevention of pollution</u> Generally neutral (no significant interaction), but could be a detriment if plant die-off causes low oxygen at the bottom of the pond
- <u>Protection of land containing shellfish</u> Generally neutral (no significant interaction), but reduced algae might reduce food resources for shellfish, and direst toxicity is possible under unusual circumstances
- <u>Protection of fisheries</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)
- <u>Protection of wildlife habitat</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, loss of cover)

⁵ Commonwealth of Massachusetts Executive Office of Environmental Affairs. Practical Guide to Lake Management: 2004. 133 p.



Copper-Based Algaecides

Approval for the use of a copper-based algaecide (i.e. CuSO4, SeClear, Captain) is requested in the event that nuisance algae conditions develop, warranting treatment. Copper based algaecides are widely used and are applied to lakes and ponds throughout North America to control nuisance filamentous and microscopic algae. There are no water use restrictions associated with copper-based algaecides and Aquatic Control treats several direct, potable (drinking) water reservoirs and a number of recreation waterbodies in the Commonwealth with these algaecides, on a yearly basis. The concentrated liquid algaecides that are first diluted with lake water and then sprayed throughout the lake area. The application rate is generally 0.2 ppm or less for algae control. If applied, treatment will not exceed 50% of the lake volume.

Impacts Specific to the Wetlands Protection Act using Copper⁶

- Protection of public and private water supply Benefit (used to control algae)
- <u>Protection of groundwater supply</u> Neutral (no significant interaction)
- Flood control Neutral (no significant interaction)
- <u>Storm damage prevention</u> Neutral (no significant interaction)
- <u>Prevention of pollution</u> Generally neutral (no significant interaction), but could be a
 detriment if algae/plant die-off causes low oxygen at the bottom of the lake or causes
 release of taste and odor compounds or toxins
- <u>Protection of land containing shellfish</u> Generally neutral (no significant interaction), but reduced algae might reduce food resources for shellfish, and direct toxicity is possible under unusual circumstances.
- <u>Protection of fisheries</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, direct toxicity)
- <u>Protection of wildlife habitat</u> Possible benefit (habitat enhancement) and possible detriment (food source alteration, direct toxicity)

Buffered Alum

The goal of alum treatment is to strip the water column of phosphorus and inactivate the phosphorus in the bottom sediments. This is accomplished by applying an aluminum salt to the pond (aluminum sulfate) which reacts with the water to form an insoluble aluminum hydroxide solid (floc). This floc falls through the water column chemically and physically removing phosphorus and then settles to the bottom forming a "blanket", which effectively inactivates the phosphorus in the sediment.

Once applied, the reaction of alum and water (especially soft water lakes) causes the water to become acidic (low pH). To counter this effect, a buffer solution of sodium aluminate is applied simultaneously along with the alum. At a volumetric ratio of typically 2 parts alum to 1 part sodium aluminate, the pH will remain near background throughout the treatment process. The use of sodium aluminate is preferred over other buffer solutions because it also contributes to the aluminum dose.

Proper herbicide application allows for targeted plant control without posing an unreasonable adverse risk to non-target species and wildlife. Written approval from the Commission will be sought should alternate products be considered in future years. All products proposed for use will be registered for aquatic use in Massachusetts.

⁶ Commonwealth of Massachusetts Executive Office of Environmental Affairs. Practical Guide to Lake Management: 2004. 122 p.



Hand-Harvesting/Diver-Assisted Suction Harvesting (DASH)

With this technique, a snorkeler or diver selectively pulls out unwanted plants by hand and either puts them in a collection bag or, in the case of DASH, feeds the plant material into a suction hose which then discharges onto a screen on the topside boat. The water is then allowed to run back into the lake and the screened material is put into bins for later disposal to an upland area. This is a highly selective technique, and a labor intensive one. Normally well suited to vigilant efforts to keep out invasive species that have not yet become established or after large-scale systemic herbicide treatment efforts, it can also be employed to clear small areas of plants in high-use locations. This technique is not well suited for large-scale efforts, especially when the target species or assemblage occurs in dense or expansive beds.

Suction harvesting is also used to augment hand harvesting, allowing for a higher rate of pulling in a targeted area, as the diver/snorkeler does not have to carry pulled plants to a disposal point. It is recommended for localized infestations. The effectiveness is limited to small areas, typically less than one-half acre. All harvesting will be conducted by certified SCUBA divers with experience identifying and managing the target species. Harvested material will be disposed of at an offsite facility.

Impacts Specific to the Wetlands Protection Act using Hand Harvesting

- <u>Protection of public and private water supply</u> Neutral (no significant interaction)
- <u>Protection of groundwater supply</u> Neutral (no significant interaction)
- Flood control Neutral (no significant interaction)
- <u>Storm damage prevention</u> Neutral (no significant interaction)
- Prevention of pollution Generally neutral (no significant interaction), but could be a detriment if sediment disruption results in high turbidity
- <u>Protection of land containing shellfish</u> Generally neutral (no significant interaction)
- <u>Protection of fisheries</u> Generally neutral (no significant interaction)
- <u>Protection of wildlife habitat</u> Generally neutral (no significant interaction), but may have benefit and detriment to different species

Chemical Descriptions

Detailed information on all the herbicides proposed in this NOI can be found at the Massachusetts Department of Conservation and Recreation, Lakes and Ponds Program website. There are links under the Publications tab to the "Generic Environmental Impact Report for Eutrophication and Lake Management in Massachusetts" and the "Practical Guide to Lake Management in Massachusetts."

<http://www.mass.gov/eea/agencies/dcr/water-res-protection/lakes-and-ponds/lakes-ponds-more-pubs -generic.html >

Additional information on these herbicides can be found at the Massachusetts Department of Agricultural Resources website: http://www.mass.gov/agr/pesticides/water/Aquatic/Herbicides.htm See Attachment D for additional information.



5.3 Monitoring:

Annual inspections, including detailed point-intercept surveys during the pre-and post-management period will be conducted in order to finalize the treatment areas and assess the growth phase of the target plant species. The post-management inspection and point-intercept survey will be conducted in order to assess the efficacy of the management efforts and any impacts on non-target species so future applications can be properly adjusted to minimize non-target impacts.

6.0 ALTERNATIVES ANALYSIS

Alternatives to the proposed Aquatic Plant Management Plan were considered. SOLitude Lake Management evaluated all available strategies for control of the nuisance aquatic species in Spy Pond. Findings and recommendations were based on direct experience and discussions found in the Eutrophication and Aquatic Plant Management in Massachusetts Final Generic Environmental Impact Review (FGEIR, EOEA 2004).

Bottom Weed Barriers: Not Recommended at this Time

Physical controls, such as the use of bottom weed barriers (i.e. Aquatic Weed Net or Palco) can be effective for small dense patches of nuisance vegetation, but are not cost effective or feasible for large areas. Weed barriers are expensive to install and maintain at ~\$1.75/ft² (material & installation). Semi-annual maintenance to retrieve, clean and re-deploy the barriers would be expensive and time consuming. Additionally, covering expansive areas of the lake bottom may also have detrimental impacts on invertebrates or other types of wildlife. This technique could possibly be employed in future years to control select small dense patches of regrowth between whole lake systemic treatments.

Hydro-Raking: Not Recommended at this Time

The mechanical Hydro-Rake can best be described as a "floating backhoe" with a York Rake attachment. The barge is paddle wheel driven to facilitate operation in shallow water (<2 feet) and it can effectively work to depths of about 12 feet. It works from the water, thereby avoiding damage to sensitive shoreline habitat and property. This machine "rakes" the upper sediment layer, collecting plants and their root systems. The Hydro-Rake is well suited for the removal of plants with large rhizome structures and in that case can provide multiple years of control. The target species for control at Spy Pond have comparatively small root structures, and as such, control is likely to be annual at best, with considerable temporary disturbance. The target species also reproduce through fragmentation, as well as by reproductive structures (or turions), or by seed, so mechanical removal is not typically recommended because of increased potential for fragmentation and accelerated spread.

Harvesting: Not Recommended

Harvesting invasive species like the ones present in Spy Pond is typically not recommended because of its ability to reproduce through vegetative fragmentation, leading to increased spread into previously un-infested areas or further intensifying growth rates. Additionally, harvesting would be costly and at best would only provide a season of relief from the target species. The disruption and non-target impacts would be more significant than with spot-treatments using aquatic herbicides.

Biological: Not Recommended

There are no effective biological controls available or approved by the State for the control of the invasive aquatic plant species present in Spy Pond.



Sediment Excavation/Dredging: Not Recommended at this Time

Dredging nutrient rich bottom sediment is sometimes used as a strategy to control excessive weed growth. Conventional (dry) or hydraulic dredging would require the expenditure of hundreds of thousands of dollars in design and permitting fees alone. Dredging may also have severe impacts to aquatic organisms (i.e. fish and macroinvertebrates) in the lake with no guarantees of elimination of invasive vegetation.

Do Nothing: Not Recommended

If the invasive plant growth is allowed to continue unabated, eutrophication and filling-in at the lake will continue to occur at an accelerated rate due to the annual decomposition of excessive plant material. Anoxic conditions would degrade water quality and potentially impact fish and other aquatic organisms. Stagnant conditions will also increase water temperatures promoting both algae and bacterial growth as well as providing extensive mosquito breeding habitat. The lake's recreational and aesthetic value has also been and would continue to be significantly degraded.

7.0 **COMPLIANCE**

Massachusetts Wetlands Protection Act:

The objective of this project is to control invasive species through use of US EPA / MDAR registered aquatic herbicides.

Controlling densities of native species will typically not adversely affect wildlife habitat and will not negatively impact other interests of the Massachusetts Wetlands Protection Act. No significant alteration to wetland resources areas will occur as a result of the proposed management program; instead the resource areas will be enhanced by controlling the nuisance plant growth. The proposed management activities are consistent with the guidelines in the following documents:

- Final Generic Environmental Impact Report: Eutrophication and Aquatic Plant Management in Massachusetts (June 2004)
- Guidance for Aquatic Plant Management in Lakes and Ponds: As it Relates to the Wetlands Protection Act (April 2004 – DEP Policy/SOP/Guideline # BRP/DWM/WW/G04-1)
- The Practical Guide to Lake Management in Massachusetts (2004)

DEP License To Apply Chemicals:

All chemical applications will be performed by Certified Applicators. The USEPA/MA registered aquatic herbicides will be applied at recommended label rates, in accordance with the "Order of Conditions" and DEP "License to Apply Chemicals" permits (BRP WM04). Prior to treatment the shoreline will be posted with signs, warning of all temporary water use restrictions prior to treatments. A site specific "License to Apply Chemicals" for the proposed treatment will be filed with Massachusetts DEP, Office of Watershed Management.

Massachusetts Environmental Policy Act:

The strategies proposed in this NOI are options approved under the Massachusetts Environmental Protection Act (MEPA) process that was approved in 2004 with the issuance of the FGEIR and the Practical Guide to Lake and Pond Management in Massachusetts. These approaches do not require individual MEPA review.



Massachusetts Endangered Species Act:

According to the most recent Natural Heritage maps provided by MA GIS, Spy Pond is located within areas designated as Estimated Habitats of Rare Wildlife and Priority Habitats of Rare Species (Figure 5) as determined by the Massachusetts Natural Heritage & Endangered Species Program (NHESP).

8.0 IMPACTS OF THE PROPOSED MANAGEMENT PLAN SPECIFIC TO THE WETLANDS PROTECTION ACT

<u>Protection of public and private water supply</u> – Spy Pond is not used directly as a drinking water supply. Aquatic herbicide treatment at the lake will not have any adverse impacts on the public or private water supply, when used in accordance with the project label and conditions of the MA DEP License to Apply Chemicals.

<u>Protection of groundwater supply</u> – According to available studies, there is no reason to believe that the groundwater supply will be adversely impacted by the application of the chemicals at the proposed rates to Spy Pond, when used in accordance with the project label. Contamination of groundwater by aquatic herbicides is limited by their low rate of application, rapid rate of degradation, and uptake by target plants. SLM's State licensed applicators take all necessary precautions when mixing and disposing of all chemical containers.

<u>Flood control and storm damage prevention</u> — No construction, dredging or alterations of the existing floodplain and storm damage prevention characteristics of the pond are proposed. However, in some instances, abundant and excessive aquatic plant growth can contribute to high water and flooding. Most commonly this occurs in the vicinity of waterbody outlets or water conveyance channels and structures. The unmanaged, annual growth and decomposition of abundant plant growth is also known to increase sediment deposition at an accelerated rate. Therefore, the application of aquatic herbicides may increase the capacity of the resource area over the long-term to provide flood protection.

<u>Prevention of pollution</u> – No degradation of water quality or increased pollution is expected by the application of the herbicides. The proposed herbicides are relatively slow acting in controlling the invasive vegetation. This results in a slow release of nutrients from the decaying plants, reducing the potential for increases in nutrients that can cause algae blooms. Removal of the excessive growth of aquatic vegetation will contribute to improved water circulation and a reduction in the potential for anoxic conditions. The post-treatment decrease in plant biomass will help to decrease the rate of eutrophication currently caused by the decomposing of excessive plant material.

<u>Protection of fisheries and shellfisheries</u> – Contiguous, dense beds of aquatic vegetation provide poor habitat for most species of fish. Dense plant cover frequently results in significant diurnal fluctuations in dissolved oxygen as well as oxygen depletion during certain times of the year. While temporary effects on some desirable submersed and floating-leafed species may occur following the application of an aquatic herbicide, non-target plants typically rebound quickly. Shoreline emergent plants will not be impacted following the use of aquatic herbicides.

<u>Protection of wildlife and wildlife habitat</u> – In general, excessive and abundant plant growth, especially non-native plants, provides poor wildlife habitat for fish and other wildlife. The proposed management plan is expected to help prevent further degradation of the waterbody through excessive weed growth



and improve the wildlife habitat value of the pond in the long-term. Maintaining a balance of open water and vegetated areas is intended.

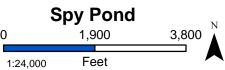


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82 of 2	





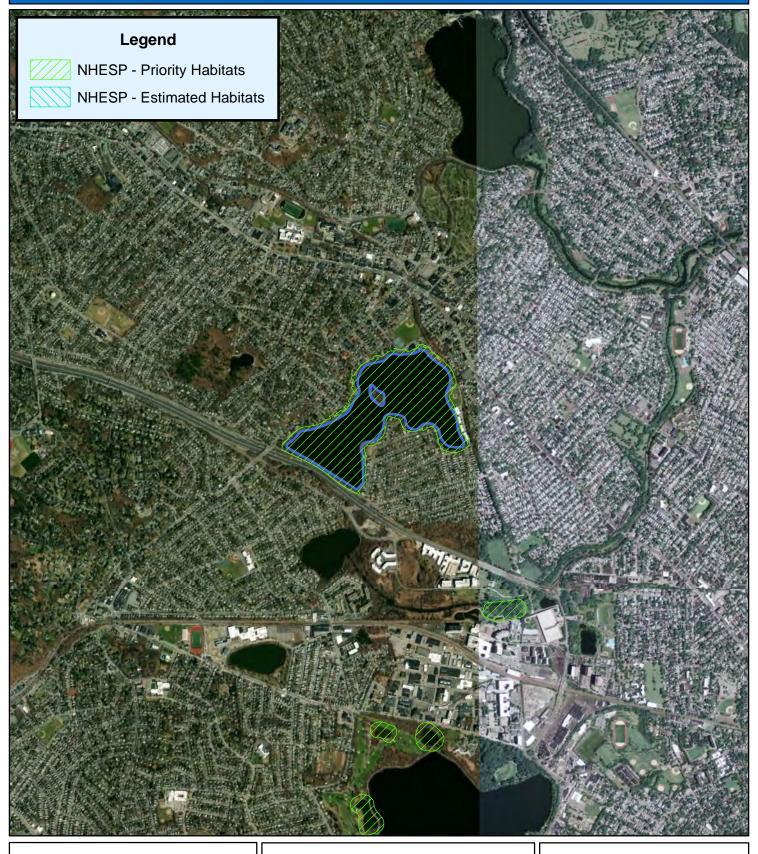




Map Date: 12/2/2020 Prepared by: ALM Office: SHREWSBURY, MA

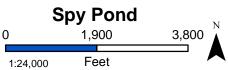
FIGURE 2: Natural Heritage and Endangered Species Program





Spy Pond Arlington, MA



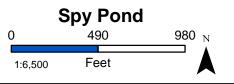


Map Date: 12/2/2020 Prepared by: ALM Office: SHREWSBURY, MA

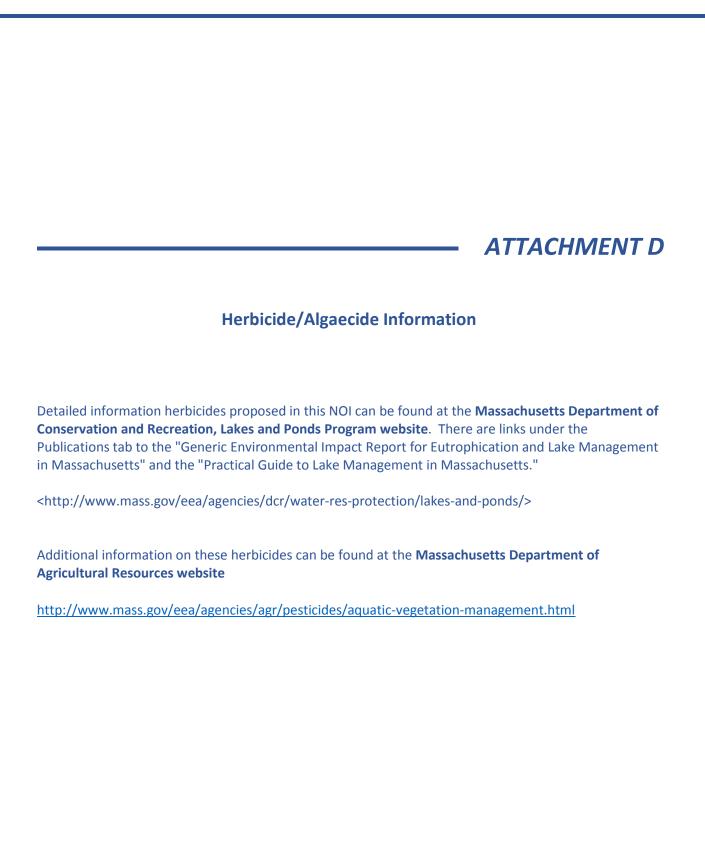








Map Date: 08/07/2017 Prepared by: ALM Office.85HREWSBURY, MA



Spy weeds 6/11/15 91-258

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 5 - Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File # eDEP Transaction #

Provided by MassDEP:

Arlington City/Town

91 - 258

A. General Information

c. Assessors Map/Plat Number

Latitude and Longitude, if known:

Please note: this form has been modified with added space to accommodate the Registry of Deeds Requirements

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. From: 2. This issu (check o		ion a. ⊠Order of Conditions b. ☐ Amended	Order of Conditions
3. To: App	plicant;		
Teresa a. First N Town o c. Organi	_{lame} f Arlington Public W	DeBenedictis b. Last Name orks Dept	
c. Organi 51 Gro			
	Address	_ }	
Arlingto	on	MA ···	02476
e. City/To	own	f. State	g. Zip Code
4. Property	Owner (if different fr	om applicant):	
Adam		Chapdelaine	
a. First N	ame	b. Last Name	
Manage	er, Town of Arlingtor)	
c. Organi	zation		
730 Ma	ssachusetts Ave		
d. Mailing	, Address		
Arlingto		<u>M</u> A	02476
e. City/To	own	f. State	g, Zip Code
5. Project Lo	ocation:		
Spy Po	nd	Arlington	
a. Street		b. City/Town	

42.407569d

d. Latitude

d. Parcel/Lot Number

m s

S

m

-71.155364d

e. Longitude



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 5 - Order of Conditions

Spy Welds
Provided by MassDEP:
91–258
MassDEP File #

eDEP Transaction #
Arlington
City/Town

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

					City/Town
A.	. General Informat	ion (cont	t.)		
6.	Property recorded at the I one parcel): Middlesex	Registry of	Deeds for (attach addition	al in	formation if more than
	a. County		b. Certificate Num	ber (i	f registered land)
_	c. Book 4/22/15		d. Page 5/21/15		6/11/15
7.	Dates: a. Date Notice of I	ntent Filed	b. Date Public Hearing Cl	osed	c. Date of Issuance
8.	Final Approved Plans and as needed): see attached list a. Plan Title	Other Doc	uments (attach additional	plar	or document references
	b. Prepared By		c. Signed and Star	nped	by
	d. Final Revision Date		e. Scale		
	f. Additional Plan or Document T	itle			g. Date
В.	Findings				
1.	Findings pursuant to the N	/lassachuse	etts Wetlands Protection A	.ct:	
	Following the review of the provided in this application the areas in which work is Protection Act (the Act). C	n and prese proposed i	ented at the public hearing s significant to the followir	, this	Commission finds that
a.	☐ Public Water Supply	b. [] [and Containing Shellfish	C.	□ Prevention of Pollution
d.	☐ Private Water Supply	e. 🛭 F	Fisheries	f.	☑ Protection of Wildlife Habitat
g.	☐ Groundwater Supply	h. 🛭 S	Storm Damage Preventior	1 i.	
2.	This Commission hereby fir	nds the proje	ect, as proposed, is: (check	one	of the following boxes)

Approved subject to:

a. It the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 5 — Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Spy Webs
Provided by MassDEP:
91-258
MassDEP File #

eDEP Transaction #
Arlington
City/Town

| Wassachusells Wellands Protection Act M.G.L. C. 131, 340

B. Findings (cont.)

De	enied because:							
b.	the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. A description of the performance standards which the proposed work cannot meet is attached to this Order.							
C.	the information submitted by the applicant is not sufficient to describe the site, the work, or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).							
3.	☐ Buffer Zone Impacts: S disturbance and the wetlan				a. linear feet			
Inl	and Resource Area Impaci	s: Check all that	apply below. (F	or Approvals Only	/)			
Re	source Area	Proposed Alteration	Permitted Alteration	Proposed Replacement I	Permitted Replacement			
4. 5.	☐ Bank☐ Bordering	a. linear feet	b. linear feet	c. linear feet	d. linear feet			
6,	Vegetated Wetland Land Under Waterbodies and Waterways	a. square feet 102 ac a. square feet	b. square feet 102 ac b. square feet	c. square feet 102 ac c. square feet	d. square feet 102 ac d. square feet			
7.	☐ Bordering Land Subject to Flooding	e. c/y dredged a. square feet	f. c/y dredged b. square feet	c. square feet	d. square feet			
	Cubic Feet Flood Storage	e. cubic feet	f. cubic feet	g. cubic feet	h. cubic feet			
8.	☐ Isolated Land Subject to Flooding	a. square feet	b. square feet	g				
	Cubic Feet Flood Storage	c. cubic feet	d. cubic feet	e. cubic feet	f. cubic feet			
9.	Riverfront Area	a. total sq. feet	b. total sq. feet					
	Sq ft within 100 ft	c. square feet	d. square feet	e. square feet	f. square feet			
	Sq ft between 100-							

h. square feet

i. square feet

g. square feet

200 ft

j. square feet



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B. Findings (cont.)

Coastal Resource Area Imp	acts: Check all t	hat apply below.	(For Approvals	Only)
	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10. Designated Port Areas	Indicate size	under Land Und	er the Ocean, bel	ow
11.	a. square feet	b. square feet		
	c. c/y dredged	d. c/y dredged		
12. Barrier Beaches	Indicate size i below	under Coastal Bo	eaches and/or Co	pastal Dunes
13. Coastal Beaches	a. square feet	b. square feet	cu yd c. nourishment	cu yd d. nourishment
14. Coastal Dunes	a. square feet	b. square feet	cu yd c. nourishment	cu yd d. nourishment
15. Coastal Banks	a. linear feet	b. linear feet		
 Rocky Intertidal Shores 	. a. square feet	b. square feet		
17. Salt Marshes	a. square feet	b. square feet	c. square feet	d. square feet
18.	a. square feet	b. square feet		
_	c. c/y dredged	d. c/y dredged		
 Land Containing Shellfish 	a. square feet	b. square feet	c. square feet	d. square feet
20. Fish Runs		d/or inland Land	anks, Inland Bank I Under Waterboo	
21. Land Subject to	a. c/y dredged	b. c/y dredged		
Coastal Storm Flowage	a. square feet	b. square feet		



has been entered in Section B.5.c (BVW) or

B.17.c (Salt

please enter

the additional

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	В.	Findings (cont.)	
* #22. If the project is for the purpose of	22.	Restoration/Enhancement *:	,
restoring or enhancing a		a. square feet of BVW	b. square feet of salt marsh
wetland resource area in addition to		Stream Crossing(s):	
the square footage that		a. number of new stream crossings	b. number of replacement stream crossings

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects.

- Marsh) above. 1 Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- The Order does not grant any property rights or any exclusive privileges; it does not amount here. 2. authorize any injury to private property or invasion of private rights.
 - This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
 - 4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - a. The work is a maintenance dredging project as provided for in the Act; or
 - b. The time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
 - If the work is for a Test Project, this Order of Conditions shall be valid for no more than one year.
 - This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order. An Order of Conditions for a Test Project may be extended for one additional year only upon written application by the applicant, subject to the provisions of 310 CMR 10.05(11)(f).
 - If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on ____ unless extended in writing by the Department.
 - 7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.



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C. General Conditions Under Massachusetts Wetlands Protection Act

- 8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
- 9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
- A sign shall be displayed at the site not less then two square feet or more than three square feet in size bearing the words,

"Massachusetts Department	of Environmental	Protection" [or	, "MassDEP"
"File Number	91-258	s	

- 11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
- 12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
- 13. The work shall conform to the plans and special conditions referenced in this order.
- 14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
- 15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
- 16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.



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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- 17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.
- 18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

19.	The wo	rk associated with this Order (the "Project")
	(1)	is subject to the Massachusetts Stormwater Standards
	(2)	is NOT subject to the Massachusetts Stormwater Standards

If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:

- a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
- b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that:

 i. all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures;

 ii. as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;

 iii. any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;



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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;

v. any vegetation associated with post-construction BMPs is suitably established to withstand erosion.

- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following:
 - i.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and
 - ii.) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
- d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.
- f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.

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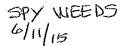
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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- g) The responsible party shall:
 - 1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 - Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 - 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- I) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions (if you need more space for additional conditions, please attach a text document):
See attached 5 pages, conditions 20-40.

20. For Test Projects subject to 310 CMR 10.05(11), the applicant shall also implement the monitoring plan and the restoration plan submitted with the Notice of Intent. If the conservation commission or Department determines that the Test Project threatens the public health, safety or the environment, the applicant shall implement the removal plan submitted with the Notice of Intent or modify the project as directed by the conservation commission or the Department.





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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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D. Findings Under Municipal Wetlands Bylaw or Ordinance

۱.	ls a	a municipal wetlands bylaw or ordinance applicable? 🛛 Ye	es	☐ No	
2.	The	Arlington hereby find Conservation Commission	ls (cl	neck one	that applies):
	a.	that the proposed work cannot be conditioned to meet the municipal ordinance or bylaw, specifically:	ne sta	andards s	et forth in a
		1. Municipal Ordinance or Bylaw			2. Citation
		Therefore, work on this project may not go forward unless a Intent is submitted which provides measures which are ade standards, and a final Order of Conditions is issued.			
	b.	\boxtimes that the following additional conditions are necessary to ordinance or bylaw:	com	ply with a	-
		Arlington Bylaw for Welands Protection 1. Municipal Ordinance or Bylaw			Title V, Art 8
•	con the The mor	e Commission orders that all work shall be performed in accorditions and with the Notice of Intent referenced above. To the ditions modify or differ from the plans, specifications, or other Notice of Intent, the conditions shall control. It is special conditions relating to municipal ordinance or bylaw are space for additional conditions, attach a text document): a attached 5 pages, conditions 20-40.	e ext er pro	tent that t posals si	ne following he following ubmitted with



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E. Signatures

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key. This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

Please indicate the number of members who will sign this form.

This Order must be signed by a majority of the Conservation Commission.

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy must be mailed, hand delivered or filed electronically at the same time with the appropriate MassDEP Regional Office.

1. Date of Issuance

S/X

2. Number of Signers

return

Signatures:

by hand delivery on

_ , ,

by certified mail, return receipt requested, on

Date

F. Appeals

Date

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.



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G. Recording Information

Prior to commencement of work, this Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

Arlington Conservation Commission, 730 Ma	assachusetts Ave, <i>i</i>	Arlington, MA 02476
Detach on dotted line, have stamped by the Regis	•	
To:		
	•	
Arlington . Conservation Commission		
Please be advised that the Order of Conditions for	or the Project at:	
Spy Pond	91-258	
Project Location	MassDEP File Num	nber
Has been recorded at the Registry of Deeds of:		
Middlesex		
County	Book	Page
for: Property Owner		
and has been noted in the chain of title of the affe	ected property in:	
Book	Page	
In accordance with the Order of Conditions issue	d on:	
Date		
If recorded land, the instrument number identifyin	g this transaction is	3:
Instrument Number		
f registered land, the document number identifyir	ng this transaction i	s:
Document Number		
Signature of Applicant		

ORDER OF CONDITIONS

SPY POND AQUATIC VEG. MANAGEMENT

SPY WEEDS DEP FILE NO. 91-258 6/11/15

Referenced Documents

- 1. Notice of Intent application, Spy Pond Aquatic Management program, Arlington, MA, prepared for Teresa DeBenedictis, Town of Arlington, Public Works Department, 51 Grove St., Arlington, MA, 02476, prepared by Marc Bellaud, Aquatic Control Technology, LLC, 11 John Rd, Sutton, MA 01590, dated 4/22/15, containing:
 - a. NOI Form WPA Form 3, App. A: Ecological Restoration Limited Project Checklists
 - b. NOI Wetland Fee Transmittal Form
- c. Att. A Abutter Notification Environmental Monitor, Affidavit of Service, Abutters Notice, Abutters Lists
 - d. Att. B Project Description
 - 1.0 Introduction
 - 2.0 Problem Statement
 - 3.0 Site Description
 - 4.0 Existing Conditions
 - 5.0 In-Lake Management Recommendations
 - 5.1 Program Overview
 - 5.2 Proposed Products
 - 5.3 Monitoring
 - 6.0 Alternatives Analysis
 - 7.0 Compliance
 - 8.0 Impacts of the Proposed Management Plan Specific to the Wetlands

Protection Act

e. Att. C – Figures

Figure 1: Site Locus

Figure 2: FEMA FIS Map

Figure 4: Vegetation Assemblage - June 2014

Figure 3: Pre-Treatment Vegetation Assemblage - April 2013

Figure 5: NHESP Habitat Locations

f. Att. D – MA DCR Information on Eurasian Watermilfoil

g. Att. E – Herbicide/Algaecide Information

Findings

(under the Wetlands Protection Act and Arlington Wetlands Bylaw)

Based on the testimony at the public hearings, and review of the application materials and the document listed below submitted during the public hearings, the Commission concludes that the proposed project will not have a significant or cumulative effect upon the interests of the Wetlands Protection Act or the resource area values of the Arlington Wetlands Bylaw. The Commission further finds that the project will improve the capacity of the resource areas at the project site to serve the interests of the Act and Bylaw, and therefore is eligible to be treated as a limited project under 310 CMR 10.53(4), and aquatic vegetation management will maintain the native plant community protected by the bylaw as significant, thus will improve the natural capacity of the area to provide

ORDER OF CONDITIONS

SPY POND AQUATIC VEG. MANAGEMENT SPY WEEDS DEP FILE NO. 91-258

wildlife habitat, water quality and improve habitat value in the Resource Area and Buffer Zone. The proposed work meets the performance standards of Section 24 D (4) of the Arlington Wetlands Bylaw Regulations.

The Commission maintains the view that the use of herbicides, algaecides, and alum is a partial and temporary solution. The Commission requires that the Applicant continue to explore and pursue longer term, watershed-wide solutions to the invasive aquatic vegetation in Spy Pond which would obviate the need for chemical control.

In reaching its decision, the Commission relied heavily upon the "Eutrophication and Aquatic Plant Management in Massachusetts, Final General Environmental Impact Report (GEIR)" by the Executive Office of Environmental Affairs, 2004.

This Order applies to all areas and work that are in resource areas or the 100-foot Buffer Zone, or that add storm drainage to a discharge point in said resource area or Buffer Zone.

The Commission voted unanimously to approve the Notice of Intent under the Wetlands Protection Act, c.131, s.40 ("the Act") and Arlington Wetlands Bylaw subject to the following additional conditions contained herein.

Additional Special and/or Bylaw Conditions

- 20. Work permitted by this Order and Permit shall conform to the Notice of Intent, plans and oral presentations (as recorded in hearing minutes) submitted by the applicant and the applicant's agents or representatives, as well as any plans and other data submitted per these Conditions and approved by the Commission.
- 21. The applicant is permitted to use fluridone, copper, diquat, alum and glyphosate (with conditions, see below) in Spy Pond as necessary to control the growth of invasive aquatic plants and Phragmites. If any other products or methods are proposed and such changes are significant, the applicant may be required to file an Amended or a new Notice of Intent.
 - 21. a. For application of glyphosate formulations such as AquaPro, the applicant will use a dilute solution of 1.5% glyphosate and apply only on a non-windy day (< 5 mi/h).
 - 21. b. For application of glyphosate formulation, the applicant will assess the efficacy of hand-wiping small patches of Phragmites in order to keep the herbicide contained to the plant leaves and stem. If hand-wiping is not practical, the applicant will use a targeted back-pack sprayer to specifically target stands of Phragmites in order to minimize drift of the herbicide to other vegetation, aquatic biota in the pond, and the shoreline.
 - 21.c. The EPA is currently reviewing the federal permit registration for glyphosate and this review is expected to be completed in 2015. The Commission may re-visit these Spy Pond permit conditions for glyphosate use if EPA findings conflict with this Order and Permit.
- 22. The provisions of this Order and Permit shall apply to and be binding upon the applicant and applicant's assigns, tenants, employees, contractors, or agents.

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SPY POND AQUATIC VEG. MANAGEMENT

SPY WEEDS DEP FILE NO. 91-258 41/15

- 23. No work shall be started under this Order until: (a) all other required permits or approvals have been obtained and (b) the appeal period of ten (10) business days from the date of issue of this Order has expired without any appeal being filed. No work shall be started under this Permit until all other necessary permits or approvals (including the Natural Heritage program) have been obtained.
- 24. The applicant shall comply with all requirements set forth by the Natural Heritage program to protect the state-listed rare speces, Engleman's Unbrella-Sedge. If their requirements are stricter (more protective of the plant) than these conditions, they shall take precedence.
- 25. The applicant shall ensure that a copy of this Order of Conditions and Permit for work, with any referenced plans, is available on site at all times, and that contractors, site managers, foremen, and subcontractors understand it provisions.
- 26. Prior to starting work, the applicant shall submit to the Commission the names and 24-hour phone numbers of project managers or the persons responsible for site work or mitigation.
- 27. No heavy equipment may be stored overnight within the 100-foot Buffer Zone. No refueling or maintenance of machinery shall be allowed within the 100-foot Buffer Zone or within any Resource Area.
- 28. The Commission, its employees and its agents, with proper notification of the site supervisor, shall have the right of entry onto the site to inspect for compliance with the terms of this Order of Conditions and Permit.
- 29. The Applicant shall notify the Conservation Commission (to cbeckwith@town.arlington.ma.us) within 72 hours prior to each application of herbicide, algaecide or alum.
- 30. The Applicant or its contractor/consultant shall post signs along the shoreline of the pond within 24 hours prior to each application of herbicide, algaecide or alum. Such signs will be posted in a manner so as to sufficiently alert the public of any temporary water use restriction(s). Said signs shall be maintained for the period of the water use restriction or twenty-four (24) hours following application, whichever is longer.
- 31. No more than three weeks prior to any whole-pond treatments, the Applicant shall notify by hand delivery or first-class mail all abutters of the application and use restrictions, if any. At the same time, the applicant shall also forward this notice to:
 - a) the Friends of Spy Pond Park (Karen Grossman, klgwoman@comcast.net)
 - b) the Arlington listserve (www.arlingtonlist.org),
 - c) the Arlington Boys and Girls Club (abgclub@abgclub.org)
 - d) the Town's webpage (webmaster@town.arlington.ma.us)
 - e) the Mystic River Watershed Association (contact@mysticriver.org).
 - f) Spy Pond committee (Brad Barber, chair, bradb@shore.net)
 - g) Arlington Land Trust (Jenn Ryan, director, info@arlingtonlandtrust.org)

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SPY POND AQUATIC VEG. MANAGEMENT

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- 32. Application of all herbicides, algaecides or alum shall be administered by an applicator licensed by the Commonwealth of Massachusetts. A copy of the approved license shall be provided to the Conservation Commission prior to the initial application.
- 33. The rate of herbicide, algaecide or alum application shall be in accordance with this Order of Conditions and Permit, the Notice of Intent, the manufacturer's recommendations, and within applicable state guidelines, with the Notice of Intent and this Order of Conditions and Permit taking precedent.
- 34. Any temporary restriction of the pond water outflow to increase effectiveness of the herbicide or algaecide shall be monitored at a minimum of three (3) times per week during the treatment period by the Applicant to prevent excessive rise in water level and to prevent flooding.
- 35. The water level of Spy Pond may be lowered a maximum of approximately eight (8) inches as part of this project.
- 36. All precautions shall be taken to prevent spillage of any chemical, herbicide, algaecide or alum during application. Any such spillage shall be contained and cleaned-up immediately and fully, and shall be reported to the Conservation Commission and any other necessary local or state authorities.
- 37. Any equipment or vehicles shall not be stored at the site for more than seven (7) days prior to or seven (7) days after commencing each application.
- 38. Hand harvesting of aquatic weeds is allowed with this permit if the Commission is given prior notice and annual progress reports.
- 39. No later than 30 days after an approved treatment is applied to Spy Pond, the Applicant shall submit a report with the following information to the Conservation Commission (document sent to cbeckwith@town.arlington.ma.us):
 - 1. What were the pond conditions at the time it was decided to apply the treatment;
 - 2. What criteria were used to reach the decision to apply treatment;
 - 3. Who was contacted and involved in making the decision to apply treatment;
 - 4. What public notice was given prior to the treatment;
 - 5. What precautions for public safety were taken on the day(s) of treatment;
 - 6. What area(s) of the pond was treated;
 - 7. What chemicals were used and in what quantity;
 - 8. What public precautions were taken after treatment; and

SPY WEEDS

ORDER OF CONDITIONS

SPY POND

AQUATIC VEG. MANAGEMENT

DEP FILE NO. 91-258

9. What was the effect of the treatment in resolving the identified problem(s).

40. When requesting a renewal or extension of this permit, the applicant must submit a report to the Conservation Commission (document sent to cbeckwith@town.arlington.ma.us) on the overall health of Spy Pond and any work in the watershed to improve the water quality.



DIVISION OF FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581 p: (508) 389-6300 | f: (508) 389-7890

MASS.GOV/MASSWILDLIFE

June 23, 2021

Arlington Conservation Commission ATTN: Emily Sullivan 730 Mass Ave, Town Offices Arlington, MA 02476

RE: Applicant: Arlington Conservation Commission

Project Location: Spy Pond

Project Description: Proposed herbicide application using Reward/Tribune (diquat), ProcellaCOR

EC (florpyrauxifen-benzyl), Sonar (fluridone), AquaPro (glyphosate), and Clearcast (imazamox) to control growth of nuisance plants, as well as copper-based algaecides (i.e. CUSO4, Captain, SeClear) and buffered alum to control phosphorus and algal blooms. Physical management techniques such as hand-harvesting, and diver-assisted suction harvesting (DASH) are requested as a non-chemical management technique to manage small

areas of invasive species (when applicable).

MA DEP File No: 091-0330 **NHESP Tracking No.: 08-24360**

Dear Commissioners:

The Natural Heritage & Endangered Species Program of the Massachusetts Division of Fisheries & Wildlife (the "Division") received a Notice of Intent with project description (Attachment B) in compliance with the rare wildlife species section of the Massachusetts Wetlands Protection Act Regulations (310 CMR 10.59). The Applicant has also sought approval for work pursuant to the MA Endangered Species Act (M.G.L. c.131A) and its implementing regulations (321 CMR 10.00).

Based on a review of the information provided and the information currently contained in our database, the proposed application of herbicide occurs within mapped *Priority Habitat* for the Engelman's Flatsedge (*Cyperus engelmanii*) a Threatened plant species. State-listed species and their habitats are protected in accordance with the MESA. Fact sheets for state-listed species can be found on our website, www.mass.gov/nhesp.

The Notice of Intent states that the project is intended to implement a plant management program to control submersed, non-native aquatic plant species, most notably Curly-leaf Pondweed (*Potamogeton crispus*), spiny naiad (*Najas minor*), and undesirable algae species. The project also stated the potential for targeting Eurasian Watermilfoil (*Myriophyllum spicatum*) which has been present in the past. The stated purpose of the project is to improve and maintain open water habitat, promote the growth of less pervasive plant species, and provide safe recreational access to the pond through an integrated management program. The Distribution of Spiny Naiad and Curly-leaf Pondweed are shown in Figure 3. Neither Eurasian watermilfoils nor curly-leaf pondweed are noted as being present in the ponds.

The purpose of the Division's review of the proposed project under the WPA regulations is to determine whether the project will have any adverse effects on the Resource Areas Habitats of state-listed species. The

purpose of the Division's review under the MESA regulations is to determine whether a Take of state-listed species will result from the proposed project.

WETLANDS PROTECTION ACT (WPA)

Based on a review of the information that was provided and the information that is currently contained in our database, the Division has determined that this project, as currently proposed, **will not adversely affect** the actual Resource Area Habitat of state-protected rare wildlife species. Therefore, it is our opinion that this project meets the state-listed species performance standard for the issuance of an Order of Conditions.

This determination addresses only the matter of **rare** wildlife habitat and does not pertain to other wildlife habitat issues that may be pertinent to the proposed project.

Special Notes:

- No details were provided about the use of alum. Therefore, at this time, the Division is unable to
 provide the Commission with suggested conditions that would be protective of the Fisheries Interest
 of the Wetland Protection Act. Alum applications can result in stress and fish kills. We would
 recommend that the Commission require the Applicant to seek the Division's recommended
 conditions on any use of Alum.
- Spiny-Leaf Naiad (*Nijas minor*). The Division has no records of this plant outside of Berkshire County. Prior to any treatment targeting this plant, we recommend that the Commission require the Applicant to have the identification of this plant confirmed by a qualified botanist to ensure proposed treatments targeting this plant are appropriate.

MA ENDANGERED SPECIES ACT (MESA)

A. Additional Information Required: Applications of Imazamox, Diquat, and Glyphosate to Water; Alum

This letter is to inform you that the Division has reviewed the materials submitted with your application and has <u>determined that additional information is required</u> in order for the Division to complete its review <u>pursuant to 321 CMR 10.18 (MESA) and 310 CMR 10.59 (WPA).</u> Based on publicly available data, these products are labelled to have direct action on *Cyperus* or other sedge species. To continue our review of the proposed use of these products, the Applicant shall submit:

- 1) Submit an Analysis of Impact to Engleman's Flatsedge. An analysis of each Imazamox, Diquat, and Glyphosate and its specific formulation on sedges, relevant to Engelman's Flatsedge. The analysis must include summarization of data available on species related to the state-listed species and address the specific amount, form and brand of products proposed for use in this application as compared to the literature sources.
- 2) Submit a Plan to Avoid Impacts. The Applicant may alternatively propose a plan to avoid impacts by application of these products when water elevations are either above, or 6" below, the habitat of the Engleman's Flatsedge. During the Division's review of the park improvements on the Pond, the City identified and marked water elevations in the pond associated with the Flatsedge that may be relevant. Alternatively, the City can propose a method to collect and mark water elevations. The upper elevation is roughly that of the shrubby border. The lower water elevation of the extent of habitat likely can only be documented during drawdown conditions.

3) **Alum.** A proposed Alum plan must be submitted including all existing and proposed conditions with calculations submitted in support of both the treatment and buffering plan. The plan must describe monitoring during and after the alum to ensure pH levels remain with the proposed target range. Plans must include the location and acres of treatment, proposed treatment target (mg/L), existing pH, buffering treatment plan (amounts, frequency of monitoring) and monitoring plan.

After receiving the above requested information, the Division will continue its review of this aspect of the proposed project for compliance with the MESA regulations. The Division reserves the right to request additional information to understand the potential impacts of the proposed project on state-listed species and their habitats. No use of the products specified above may be utilized in the Pond until the Division completes its review.

B. <u>Activities Approved Subject to Conditions</u>: *Foliar* Applications of Imazamox, Diquat, and Glyphosate; ProcellaCOR EC (florpyrauxifen-benzyl), Sonar (fluridone), copper-based algaecides (CUSO4, Captain, SeClear).

Based on the information provided and the information contained in our database, it is the opinion of the Division that a portion of this project, as currently proposed, <u>must be conditioned in order to avoid a prohibited Take of state-listed species (321 CMR 10.18(2)(a))</u>. The project must comply with the following conditions for the herbicide application:

- 4) **Submit an Annual Treatment Plan.** Annually, the Applicant must submit a written, annual treatment plan to the Division for review and written approval at least sixty (60) days prior to any treatment in the same year. The treatment plan shall include, at a minimum, a detailed map of the proposed treatment area and methods, calculated treatment acres by method (e.g., aquatic application, fog, spray, etc.), proposed date(s) of treatment(s), proposed herbicide product names and formulations, active ingredients, active ingredient target concentrations and calculated treatment concentrations. The plan shall also include a map, like Figure 3, showing the areas of proposed application.
- 5) Direct Foliar Applications of Imazamox, Diquat or Glyphosate through painting, hand-wiping, or stem injection. No special conditions are required. Such work may proceed, but with care to avoid trampling the low-lying state-listed plants if work is conducted from land.
- 6) Indirect Foliar Applications of Imazamox, Diquat and Glyphosate ("Indirect Foliar Application") through spraying, fogging, misting, wick applications, or the like. Prior to any Indirect Foliar Application of the three listed active ingredients, a survey must be conducted by a qualified botanist to locate all Engelman's Flatsedge in the proposed treatment area. The qualified botanist shall develop and submit to the Division proposed methods to avoid impacts from the treatments. These may include placing chemical resistant buckets over plants or groups of plants, plastic sheeting or similar methods. The Division must approve the protective measures in writing prior to any use of these products as described herein.
- 7) Non-Aquatic Hand Harvesting. Prior to any Hand Harvesting outside of wetland Resources Areas, a survey must be conducted by a qualified botanist to locate all Engelman's Flatsedge in the proposed treatment area. The qualified botanist shall develop and submit to the Division proposed methods to avoid impacts from hand harvesting.

- 8) **DASH, ProcellaCor, Copper-based Algaecides** No conditions are required. Applications are subject to reporting in the required Annual Treatment Plan required in Condition #4.
- 9) **Authorization, 5 years.** With a Division-approved annual treatment plan submitted and approved and in compliance with all conditions herein, activities in Section B of this determination may occur for 5 years from the date of this determination. Thereafter, the Applicant must refile with the Division pursuant to the MESA.
- 10) Wetland Protection Act Filings, Notice. When filing for any renewal, extension, or amendment of the WPA Orders of Conditions the Applicant shall contact the Division for written response regarding impacts to Resource Area habitat of state-listed wildlife. A renewal, extension or amendment of Order of Conditions does not renew, extend, or amend this MESA authorization.
- 11) The Division may find that any future proposed management activity individually or in combination will result in a Take and may require a MESA CMP subject to 321 CMR 10.23. Therefore, we recommend that the Applicant contact our office in advance of each annual submission to ensure that proposals are developed to avoid a Take of state-listed species.

Provided the above-noted conditions relevant to MESA Section B are fully implemented and there are no changes to the Project Plans or the specified products, treatment may proceed. This approval for Work explicitly and exclusively applies to the activities and specific products and chemicals described herein. Any changes to the proposed project or any additional work beyond that shown on the Project Plans may require an additional filing with the Division pursuant to the MESA. This project may be subject to further review if no physical work is commenced within five years from the date of issuance of this determination, or if there is a change to the project. No application of the products in MESA Section A to water may be utilized in the Pond until the Division completes its review.

If you have any questions regarding this letter, please contact Misty-Anne Marold, Senior Endangered Species Review Biologist, at misty-anne.marold@mass.gov or 508-389-6356.

Sincerely,

Everose Schlüter, Ph.D. Assistant Director

Evage Schlütz

RE: Kara Sliwoski, Solitude Lake Management

MA DEP, Northeast Regional Office-Wetlands and Waterways

Alicia Geilen, MA DEP Circuit Rider, Northeast

Patricia Huckery, District Manager, MA DFW Northeast



Town of Arlington, Massachusetts

Request for Plan Amendment

Summary:

Request for Plan Amendment:10-16 Mill Street MassDEP File #091-0294

7:45pm

This project proposes to redevelop existing mill buildings on three separate lots within the Riverfront Area of Mill Brook. This project was approved by the Commission on 6/21/2018, and an extension was granted until 6/21/2023.

ATTACHMENTS:

	Type	File Name	Description
ם	Notice of Intent	10-16_Mill_St_Amendment_Narrative.pdf	10-16 Mill Street Request for Plan Amendment
ם	Notice of Intent	10-16_Mill_St_Amendment_Plans.pdf	10-16 Mill Street Request for Plan Amendment_Plans
ם	Notice of Intent	10-16_Mill_St_Amendment_PlansTown_Engineer_comments.pdf	10-16 Mill Street Request for Plan Amendment_Town Engineer Review
ם	Notice of Intent	10- 16_Mill_St_Amendment_Response_to_Town_Engineer_comments.pdf	10-16 Mill Street Request for Plan Amendment_Response to Town Engineer Review
ם	Notice of Intent	10-16_Mill_St_Amendment_Supplemental_Data_Report.pdf	10-16 Mill Street Request for Plan Amendment_Supplemental Information
ם	Notice of Intent	10-16_Mill_St_Amendment_Tree_Assessment.pdf	10-16 Mill Street Request for Plan Amendment_Tree Assessment
ם	Notice of Intent	10-16_Mill_St_Amendment_Plans_Revised_29July2021.pdf	10-16 Mill Street Request for Plan Amendment_Plans_Revised



July 1, 2021

Arlington Conservation Commission 730 Massachusetts Avenue Arlington, MA 02476

Re: Minor Amendment to Order of Condition 10, 12, 14, 16 Mill Street Arlington, MA 02476

Dear Members of the Commission,

Howard Stein Hudson, on behalf of Highrock Church, inc, submit the following Site Plan to support a Minor Amendment of the Order of Conditions governing work at properties located at 10, 12, 14, and 16 Mill Street.

Since the Order of Conditions was issued, the Site Plan has had minor modifications related to the location of work occurring. The following list describes changes to the site plan since the release of the Order of Conditions:

- The front entry plaza has been redesigned to include a small gathering space, open seating, and a protection wall from Mill Street;
- The dumpster relocation to the rear of the building has been removed, and the dumpsters will remain where they currently exist. The existing dumpster pad will be reconstructed to allow stormwater to properly flow, and a privacy fence will be installed;
- An accessible path has been designed from Mill Brook Drive to the rear of the building to accommodate ADA accessibility for pedestrians from Mill Brook Drive;
- A larger, pervious, play space has been incorporated to replace pavement in the rear of the building;
- And grading modifications to the slope along the back wall of the existing 10-12 Mill Street Building have been proposed to direct water away from the existing foundation of the building. This grading modification will result in the removal of 5 trees (2 <6", 1-8", 1-10", and 1-12"). Per the Arlington Wetland Protection Bylaw, this requires replacement in the amount of 8 trees. Being that the area to relocate these trees is a very steep slope (approximately 1.5:1), it was thought that shrubs may be a better alternative for not only stabilizing the slope, but also to ensure long term survivability. With this in mind, we have proposed 3 Robin Hill Serviceberry Trees, and 23 shrubs being a mixture of Chokeberry, Oakleaf Hydrangea, and Shore Junipers, supported by 4 flats of Periwinkle groundcover. This totals 26 Shrubs/Trees compared to the required 8 replacement trees.

Please schedule this item for the next available Conservation Commission hearing. Do not hesitate to contact Howard Stein Hudson's Chelmsford Office at (978)-844-5251 with any questions or concerns.

Sincerely,

Howard Stein Hudson

Kasey Ferreira, E.I.T.

Civil Engineer

Katie Enright, P.E.

Associate/Senior Civil Engineer

SITE PLAN FOR PROPOSED RENOVATION 10, 12, 14, 16 MILL STREET ARLINGTON, MA. FOR HIGHROCK COVENANT CHURCH

GENERAL NOTES:

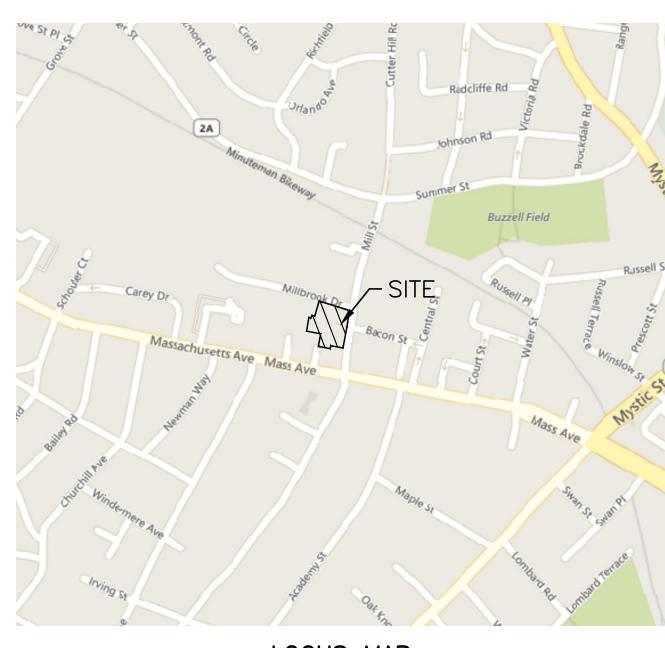
- THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT DIGSAFE AT 1-888-344-7233
- 3. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER
- 4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION. ELEVATION. AND SIZE OF THE UTILITY SHALL BE APPROPRIATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
- 5. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAVING.
- 6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED. REMOVED AND DISPOSED.
- 7. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.

SHEET INDEX

TITLE SHEET SHEET 2 LAYOUT AND MATERIALS PLAN SHEET 3 GRADING, DRAINAGE AND UTILITY SHEET SHEET 4 DETAIL SHEET 1 OF 4

SHEET 5 DETAIL SHEET 2 OF 4 SHEET 6 DETAIL SHEET 3 OF 4 SHEET 7 DETAIL SHEET 4 OF 4

EXISTING CONDITIONS PLAN



LOCUS MAP 1"=500'

PROJECT TEAM:

<u>APPLICANT</u> HIGHROCK CHURCH, INC. 14 MILL STREET ARLINGTON, MA 02474

CIVIL ENGINEER HOWARD STEIN HUDSON 114 TURNPIKE ROAD SUITE 2C CHELMSFORD, MA

SURVEYOR HANCOCK ASSOCIATES 34 CHELMSFORD STREET SUITE 2 CHELMSFORD, MA 01824

<u>ARCHITECT</u> MAUGEL ARCHITECTS, INC. 200 AYER ROAD SUITE 200 HARVARD, MA 02451

<u>OWNER</u>

HIGHROCK CHURCH INC 14 MILL STREET ARLINGTON, MA 02474

ASSESSORS INFORMATION

ASSESSORS MAP 52 BLOCK 1 LOT 12 ASSESSORS MAP 52 BLOCK 1 LOT 18 ASSESSORS MAP 52 BLOCK 1 LOT 19 ASSESSORS MAP 52 BLOCK 1 LOT 20.D

MASSACHUSETTS" DATED DECEMBER 11, 2013 AND REVISED THROUGH JANUARY 20, 2014.

ZONING REQUIREMENTS

I - INDUSTRIAL DISTRICT

DIMENSIONAL REQUIREMENTS

	REQUIREMENT	EXISTING*	\PPROVED*	PROPOSED*
MINIMUM LOT AREA	_	_	_	_
MINIMUM LOT FRONTAGE	_	_	_	_
MINIMUM FRONT YARD	10 FT	0.5 FT±**	0.5 FT±**	0.5 FT±**
MINIMUM SIDE YARD	10 FT	0 FT±**	0 FT±**	0 FT±**
MINIMUM REAR YARD	10 FT	N/A	N/A	N/A
MAXIMUM STORIES	4	2	2	2
MAXIMUM BUILDING HEIGHT	52 FT	_	_	_
MAXIMUM FLOOR AREA RATIO	1.50	1.30±	1.38±	1.35±
* DIMENSIONS FOUND BY COMBINING	G ASSESSORS MAP 52	BLOCK 1 LOTS	12, 18, 19	AND 20.D TO
DDODEDLY COMPADE DETWEEN EVICE	INO AND DOODOOLD O	ONDITIONS		

PROPERLY COMPARE BETWEEN EXISTING AND PROPOSED CONDITIONS.

** EXISTING NON-CONFORMING DIMENSION

PARKING REQUIREMENTS

THEATER, RESTAURANT, GYMNASIUM, AUDITORIUM OR SIMILAR PLACE OF PUBLIC ASSEMBLY WITH SEATING

500 SEATS X 1 PARKING SPACE/4 SEATS = 125 PARKING SPACES

OFFICE USE INCLUDING PROFESSIONAL, BUSINESS, OR MEDICAL AND DENTAL 1 SPACE PER 500 SF X 4,652 SF = 10 SPACES

TOTAL SPACES REQUIRED: 135 SPACES

EXISTING SPACES

PARKING AGREEMENT: 25 SPACES ON STREET PARKING: 7 SPACES TOTAL EXISTING PARKING: 32 SPACES



HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C Chelmsford, MA 01824 www.hshassoc.com

PREPARED FOR:

HIGHROCK CHURCH ARLINGTON, MA 02476

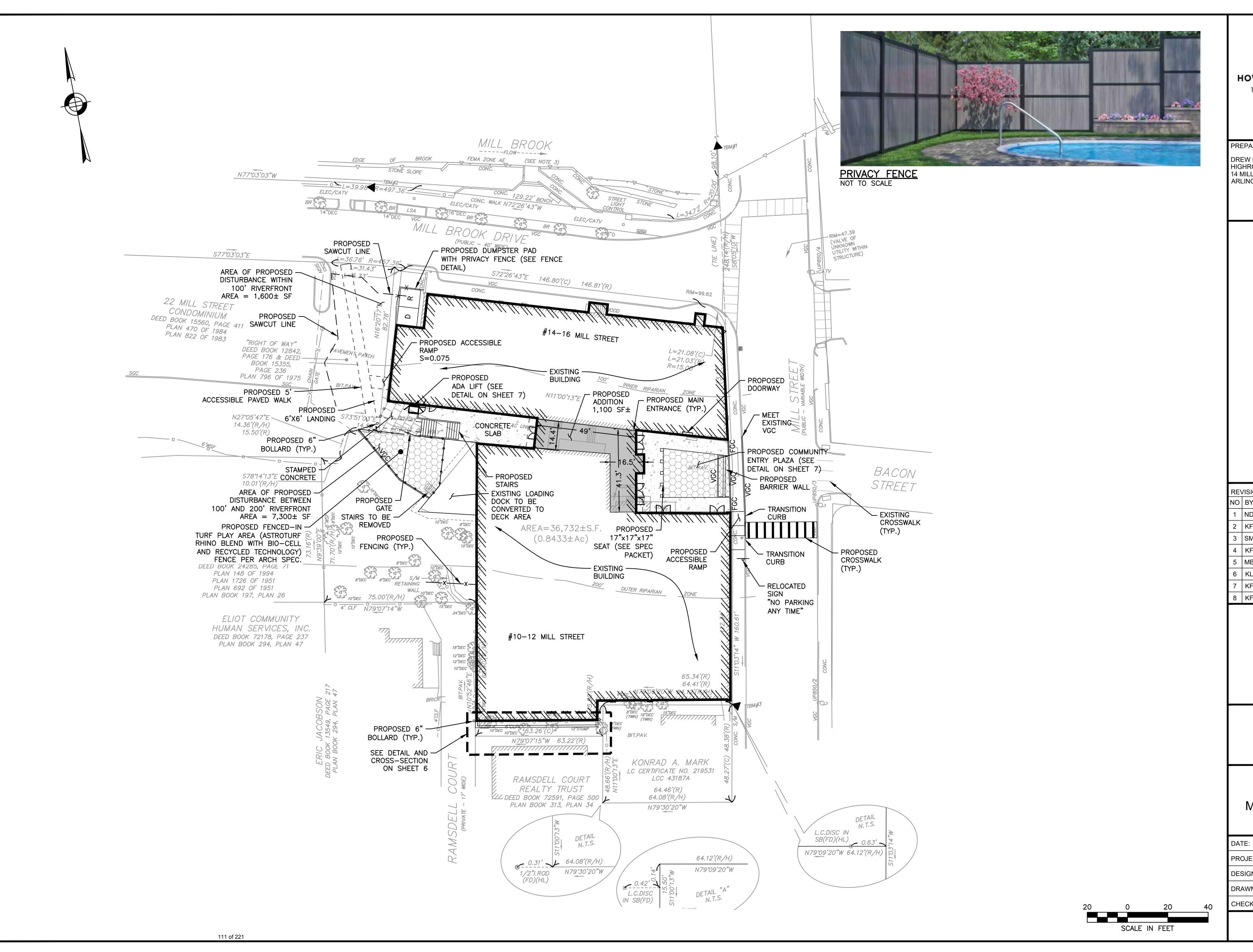
REVISIONS:				
NO	BY	DATE	DESCRIPTION	
1	ND	02-06-20	PER ARCH. CHANGES	
2	KF	12-15-20	PER ARCH. DIRECTION	
3	SM	12-23-20	PER ARCH. COMMENTS	
4	KF	01-27-21	PER ARCH. COMMENTS	
5	МВ	02-09-21	DRIVEWAY DETAIL	
6	KL	03-11-21	PER CLIENT COMMENTS	
7	KF	04-23-21	ADD DECK TO REAR	
8	KF	07-01-21	OOC AMENDMENT	



SITE PLAN

COVER SHEET

<u>:</u>	OCTOBER 16, 2018	
JECT NUMBER:	17222	
GNED BY:	KE	
WN BY:	KF/PS	
CKED BY:	KE	
1		
	SHEET 1 OF 7	





HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C Chelmsford, MA 01824 www.hshassoc.com

PREPARED FOR:

DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

HIGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET

0247

RE\	REVISIONS:						
NO	BY	DATE	DESCRIPTION				
1	ND	02-06-20	PER ARCH. CHANGES				
2	KF	12-15-20	PER ARCH. DIRECTION				
3	SM	12-23-20	PER ARCH. COMMENTS				
4	KF	01-27-21	PER ARCH. COMMENTS				
5	МВ	02-09-21	DRIVEWAY DETAIL				
6	KL	03-11-21	PER CLIENT COMMENTS				
7	KF	04-23-21	ADD DECK TO REAR				
8	KF	07-01-21	OOC AMENDMENT				



SITE PLAN

LAYOUT AND MATERIALS PLAN

DATE:	OCTOBER 16, 2018
PROJECT NUMBER:	17222
DESIGNED BY:	KE
DRAWN BY:	KF
CHECKED BY:	KE
2	
	SHEET 2 OF 7



HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C Chelmsford, MA 01824 www.hshassoc.com

PREPARED FOR:

DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

IGHROCK CHURCH RENOVATION

0247

STRE

MILL

16

10,

REVISIONS:					
NO	BY	DATE	DESCRIPTION		
1	ND	02-06-20	PER ARCH. CHANGES		
2	KF	12-15-20	PER ARCH. DIRECTION		
3	SM	12-23-20	PER ARCH. COMMENTS		
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6	KL	03-11-21	PER CLIENT COMMENTS		
7	KF	04-23-21	ADD DECK TO REAR		
8	KF	07-01-21	OOC AMENDMENT		
	•				



SITE PLAN

GRADING, DRAINAGE, AND UTILITIES PLAN

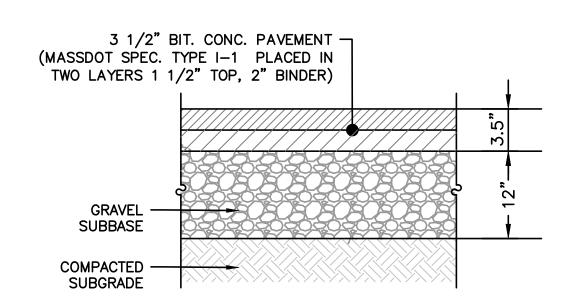
DATE:	OCTOBER 16, 2018
PROJECT NUMBER:	17222
DESIGNED BY:	KE
DRAWN BY:	KF
CHECKED BY:	KE
3	
	SHEET 3 OF 7

EROSION AND SEDIMENT CONTROL NOTES

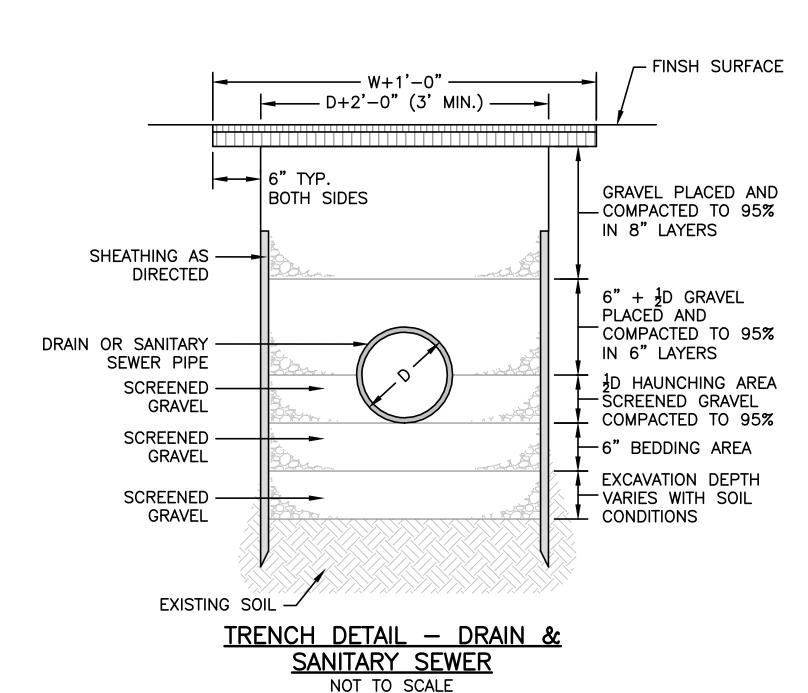
- 1. EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED AND UPGRADED AS NECESSARY DURING CONSTRUCTION BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND INSTALL ADDITIONAL CONTROL MEASURES AS NEEDED DURING CONSTRUCTION.
- 2. ALL CATCH BASINS RECEIVING DRAINAGE FROM THE PROJECT SITE MUST BE PROVIDED WITH A CATCH BASIN FILTER.
- 3. STABILIZATION OF ALL RE-GRADED AND SOIL STOCKPILE AREAS MUST BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- 4. SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROL DEVICES MUST BE PROPERLY REMOVED AND DISPOSED. ALL DAMAGED CONTROLS MUST BE REMOVED AND REPLACED.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE PROPER CITY AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING WIND EROSION AND DUST THROUGHOUT THE LIFE OF HIS CONTRACT. DUST CONTROL MAY INCLUDE, BUT IS NOT LIMITED TO, SPRINKLING OF WATER ON EXPOSED SOILS AND STREET SWEEPING ADJACENT ROADWAYS.
- 7. IF FINAL GRADING IS TO BE DELAYED FOR MORE THAN 21 DAYS AFTER LAND DISTURBANCE ACTIVITIES CEASE, TEMPORARY VEGETATION OR MULCH SHALL BE USED TO STABILIZED SOILS WITHIN 14 DAYS OF THE LAST DISTURBANCE.
- 8. IF A DISTURBED AREA WILL BE EXPOSED FOR GREATER THAN ONE YEAR, PERMANENT GRASSES OR OTHER APPROVED COVER MUST BE INSTALLED.
- 9. THE CONTRACTOR MUST KEEP ON-SITE AT ALL TIMES ADDITIONAL SILT FENCE AND HAY BALES FOR THE INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE CITY TO MITIGATE ANY EMERGENCY CONDITION
- 10. THE CONSTRUCTION FENCING AND EROSION AND SEDIMENT CONTROLS AS SHOWN MAY NOT BE PRACTICAL DURING ALL STAGES OF CONSTRUCTION. EARTHWORK ACTIVITY ON—SITE MUST BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO A SEDIMENT CONTROL DEVICE OR INFILTRATED TO THE GROUND.
- 11. DEMOLITION AND CONSTRUCTION DEBRIS MUST BE PROPERLY CONTAINED AND DISPOSED OF.
- 12. DISPOSAL OF ALL DEMOLISHED MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE HAULED OFF—SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.
- 13. DURING CONSTRUCTION, EVERY EFFORT SHALL BE MADE TO MINIMIZE CONSTRUCTION WASTE AND DEBRIS.
- 14. EVERY EFFORT SHALL BE MADE TO MINIMIZE AIR POLLUTION, SEDIMENTATION, WIND EROSION, DUST, AND CONSTRUCTION DEBRIS TO MAINTAIN A HEALTHY CONSTRUCTION ENVIRONMENT.

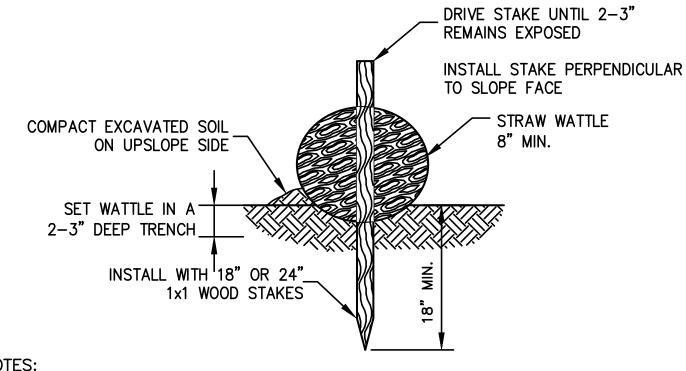
GENERAL CONSTRUCTION SEQUENCE

- 1. INSTALL EROSION AND SEDIMENT CONTROLS PRIOR TO STARTING ANY EARTHWORKS ACTIVITY.
- 2. INSTALL/UPGRADE SITE FURNISHINGS.
- 3. INSTALL PAVEMENT AND CURBS.
- 4. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED.



FULL DEPTH PARKING LOT SECTION DETAIL NOT TO SCALE





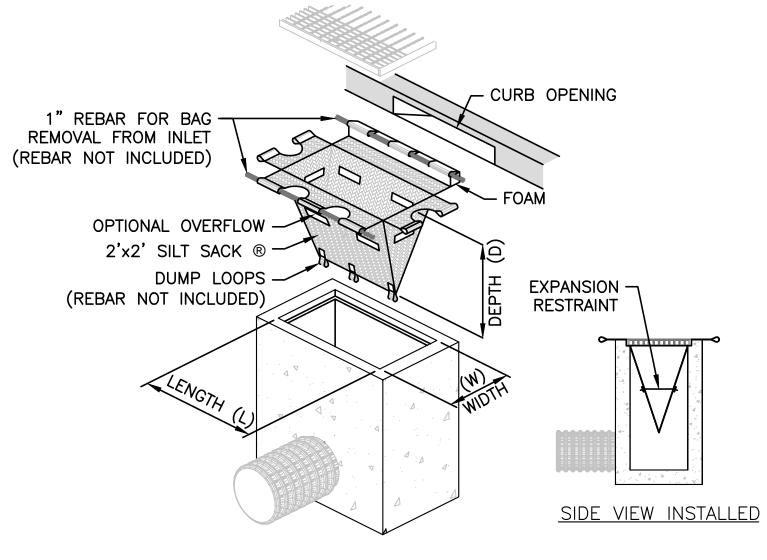
1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3"(5-7.5 CM) DEEP X 9"(22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE

FROM THE ANCHOR TRENCH.

2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.

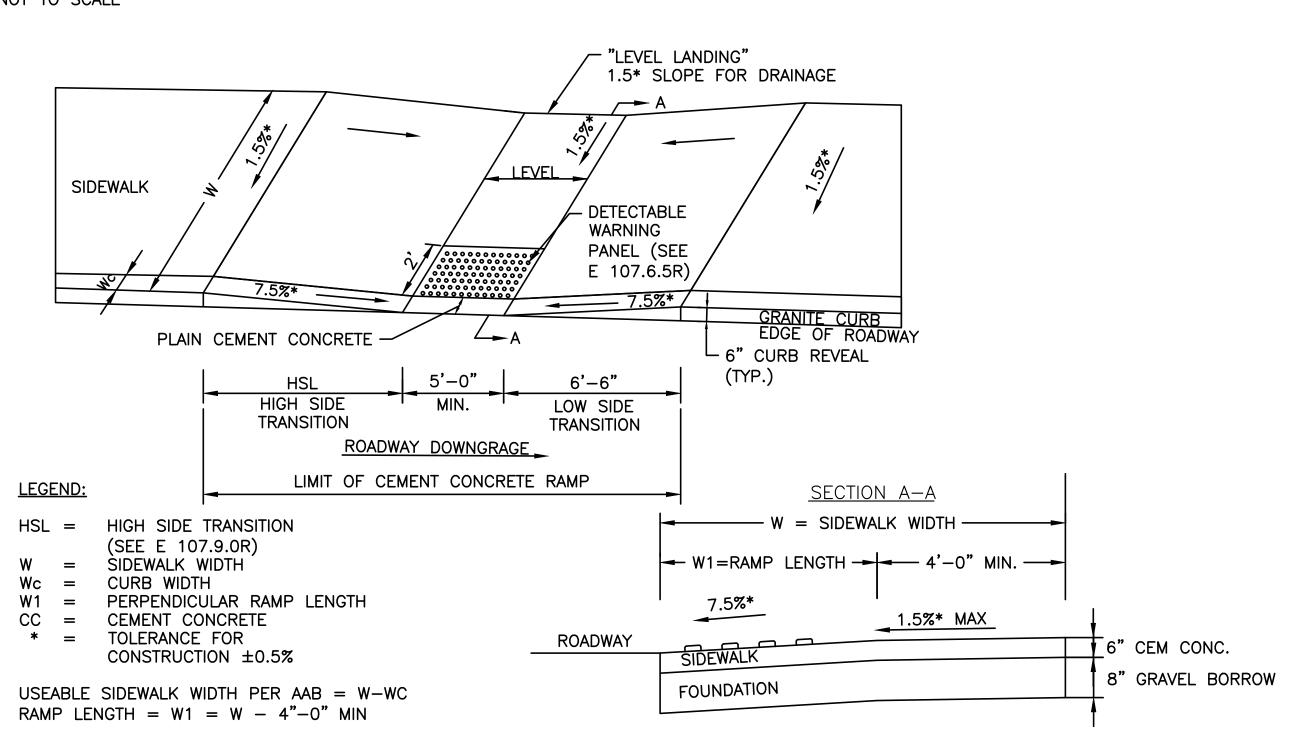
3. SECURE THE WATTLE WITH 18-24" (45.7-61 CM) STAKES EVERY 3-4' (0.9 - 1.2 M) AND WITH A STAKE ON EACH END. (STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.

STRAW WATTLE DETAIL NOT TO SCALE



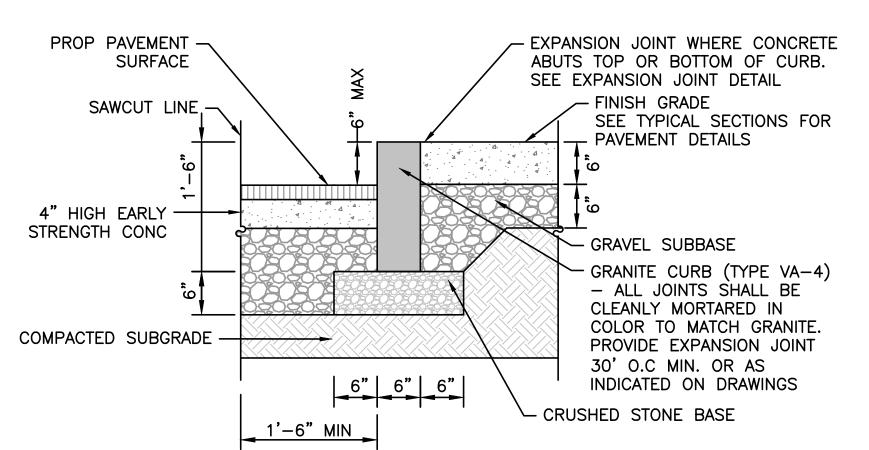
TEMPORARY INLET PROTECTION

NOT TO SCALE



WHEELCHAIR RAMPS ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL (E107.2.1R)

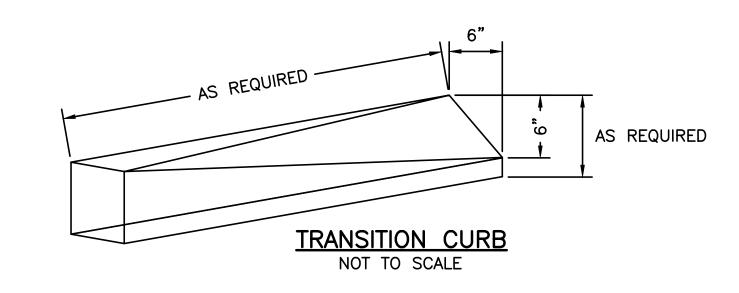
NOT TO SCALE



NOTE: USE 2" BIT. CONC. TOP COURSE ABOVE HIGH EARLY STRENGTH CONCRETE FOR RESETTING CURBS

VERTICAL GRANITE CURB

NOT TO SCALE



4:7

HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C Chelmsford, MA 01824 www.hshassoc.com

PREPARED FOR:

DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

> HGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET ARLINGTON, MA 02476

RE\	REVISIONS:			
NO	BY	DATE	DESCRIPTION	
1	ND	02-06-20	PER ARCH. CHANGES	
2	KF	12-15-20	PER ARCH. DIRECTION	
3	SM	12-23-20	PER ARCH. COMMENTS	
4	KF	01-27-21	PER ARCH. COMMENTS	
5	МВ	02-09-21	DRIVEWAY DETAIL	
6	KL	03-11-21	PER CLIENT COMMENTS	
7	KF	04-23-21	ADD DECK TO REAR	
8	KF	07-01-21	OOC AMENDMENT	



SITE PLAN

DETAIL SHEET 1 OF 4

DATE: OCTOBER 16, 2018

PROJECT NUMBER: 17222

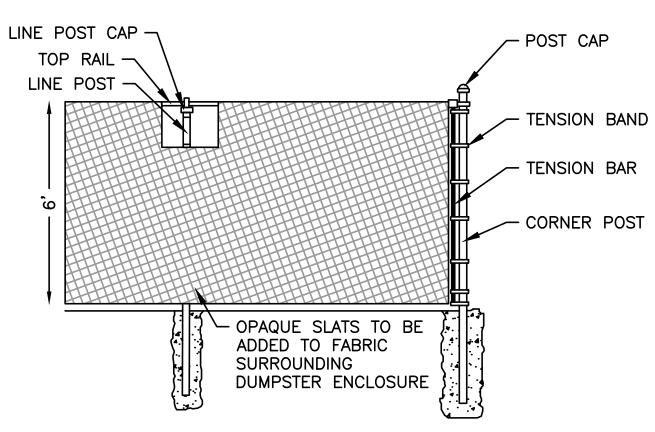
DESIGNED BY: KE

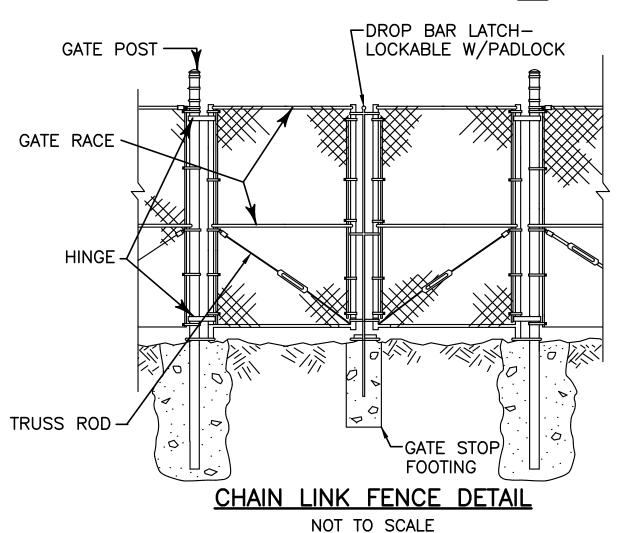
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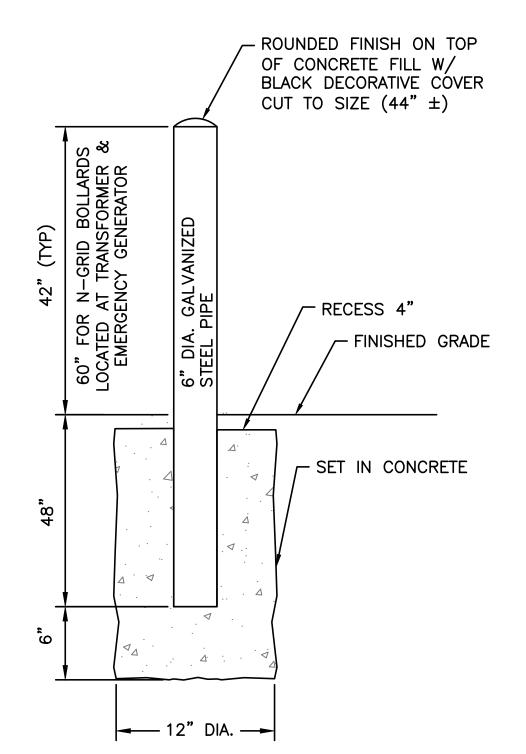
CHECKED BY: KE

4

SHEET 4 OF 7



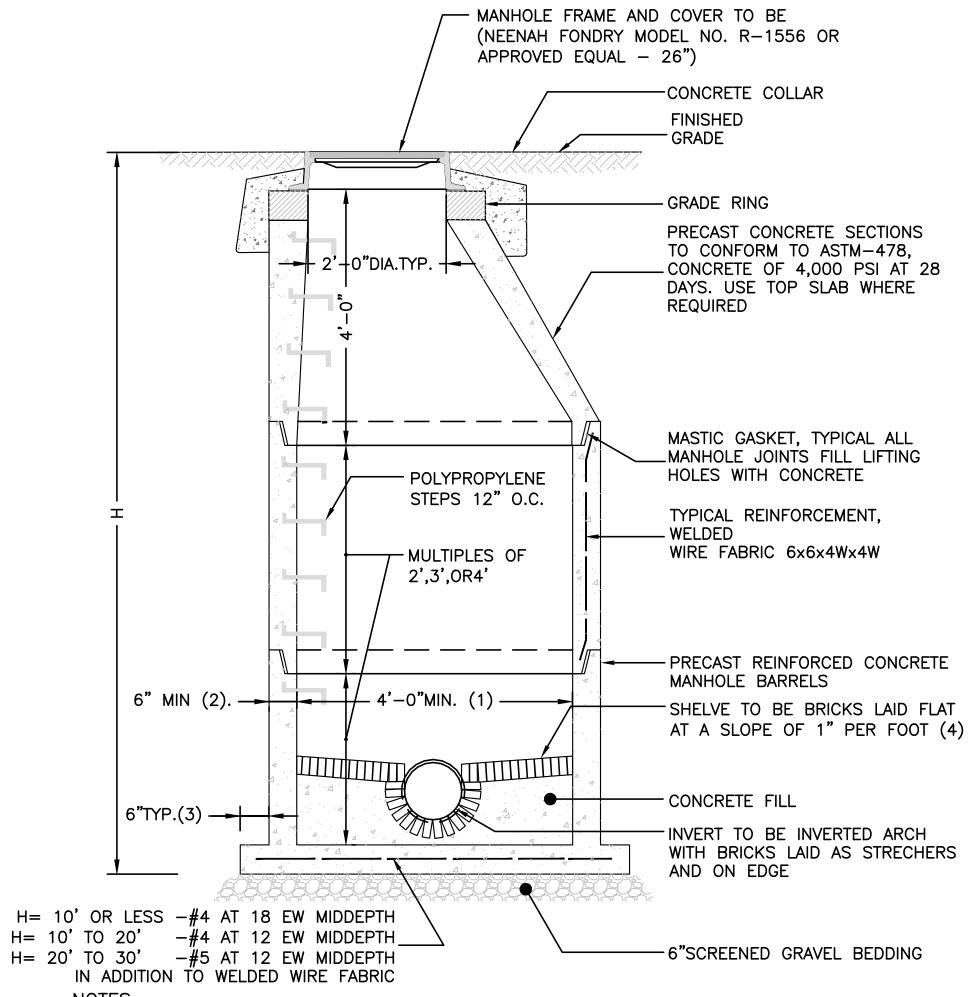




BOLLARD NOT TO SCALE

NOTE:

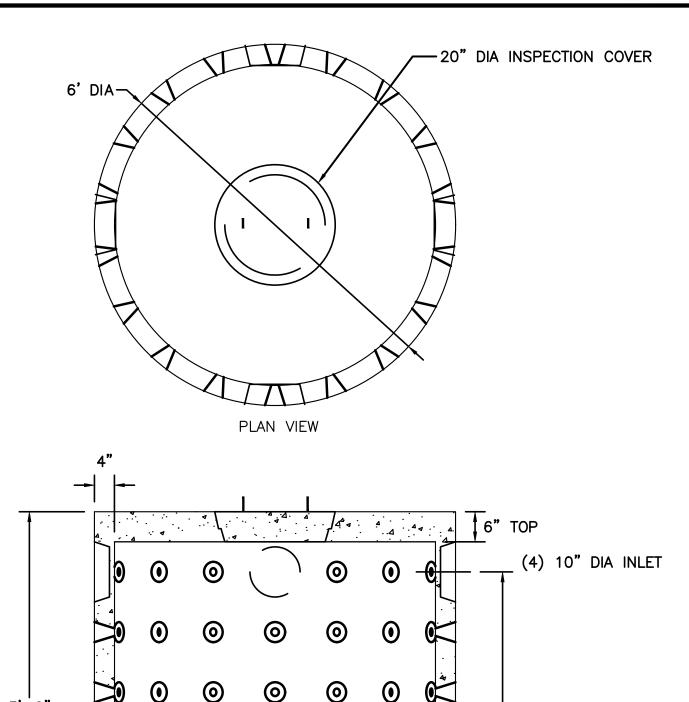
- 1. DIG POST HOLE FOR BOLLARD, PARTIALLY FILL HOLE WITH CONCRETE MIX, INSTALL PIPE, FILL HOLE, AND FILL PIPE W/CONCRETE MIX.
- 2. SUPPORT BOLLARD AND PROTECT FROM DAMAGE WHILE CONCRETE CURES. THEN PAINT WITH APPROPRIATE PAINT. COLOR AS REQUIRED BY OWNER.

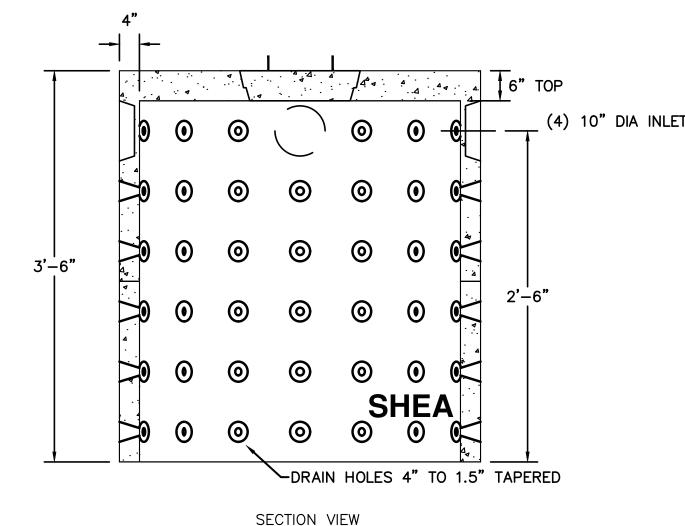


- NOTES:

 1. 5'-0" DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 20 FEET OR WHEN ORDERED BY THE ENGINEER.
- 6 INCH MIN. WALL THICKNESS AND 7 INCH MIN. BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.
 6 INCH LIP OPTIONAL UNLESS OTHERWISE NOTED. CONCRETE INVERT AND SHELF MAY BE SUBSTITUTED IN STORM DRAIN MANHOLES AS DIRECTED BY THE ENGINEER.

PRECAST CONCRETE MANHOLE NOT TO SCALE





NOTES:

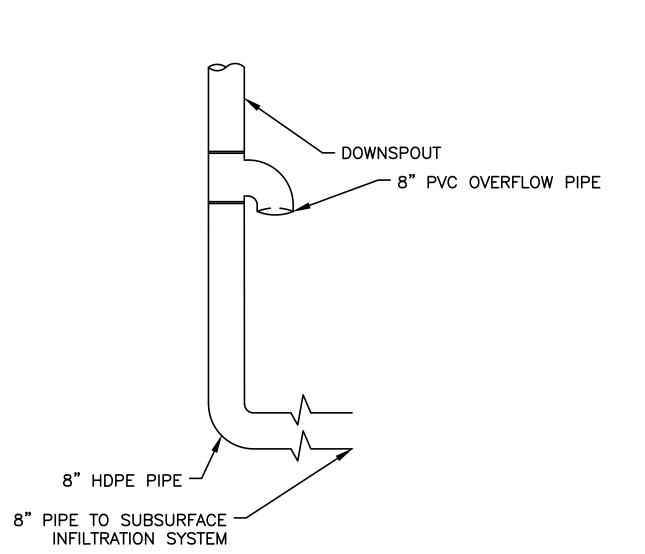
- 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
- 2. AVAILABLE IN H-20 LOADING.
- 3. CAPACITY INCREASES IN INCREMENTS OF 500 GALLONS FOR EACH 3' SECTION ADDED.

	ITEM NO.		WEIGHT
1000 GALLON	DW-1000SDW	STANDARD	6,778#
	DW-1000SDWH	H-20	6,778#
3' STACKABLE	DW-3SS		2,008#

PRECAST CONCRETE DRYWELL

NOT TO SCALE

SHAE CONRETE PDOCUTS TM



ROOF DRAIN DOWNSPOUT AND OVERFLOW

SECTION DETAIL

NOT TO SCALE

411

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114 Turnpike Road, Suite 2C Chelmsford, MA 01824 www.hshassoc.com

PREPARED FOR:

DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

HIGHROCK CHURCH
RENOVATION
10,12,14,16 MILL STREET
ARLINGTON, MA 02476

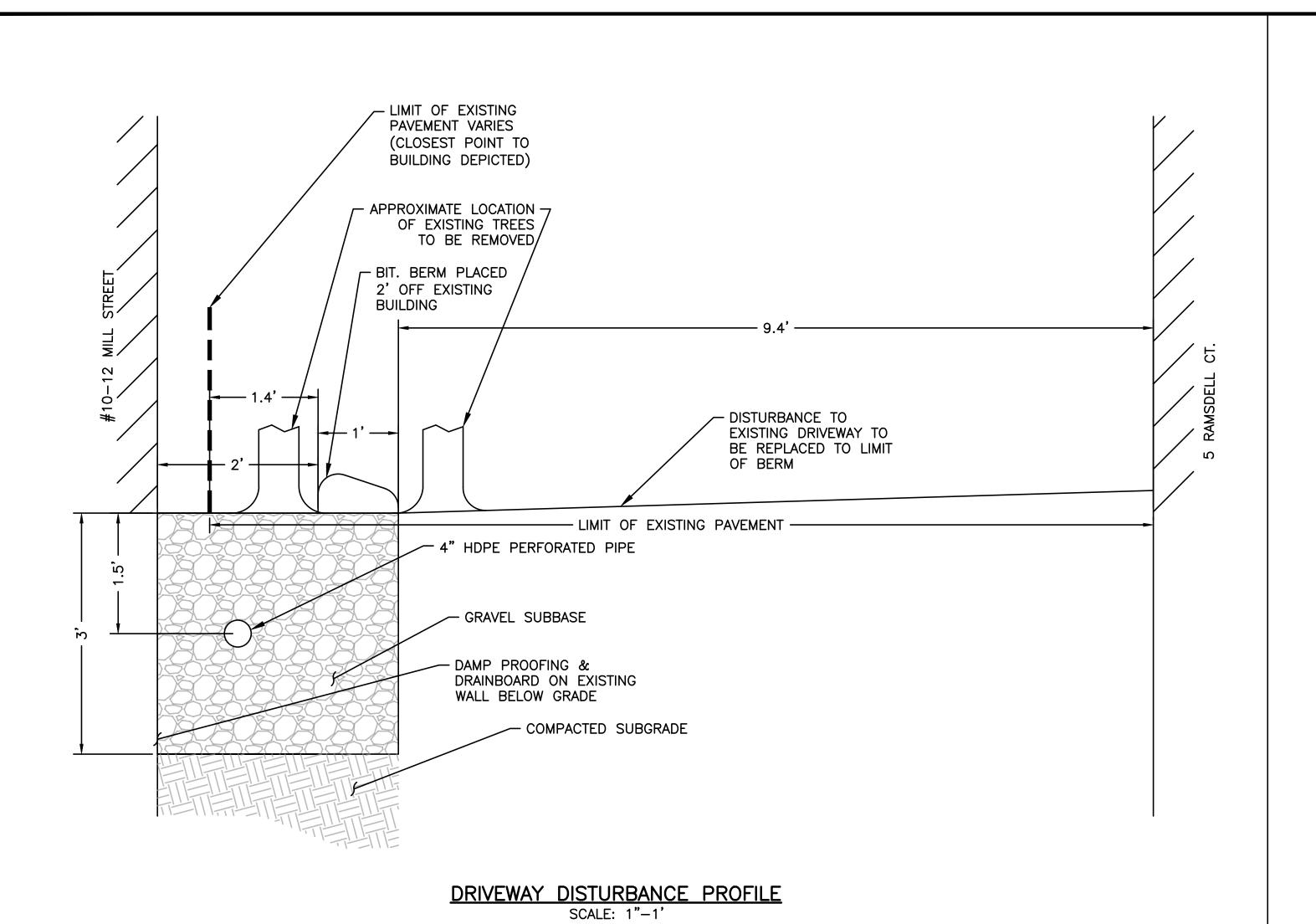
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8	KF	07-01-21	OOC AMENDMENT
		•	

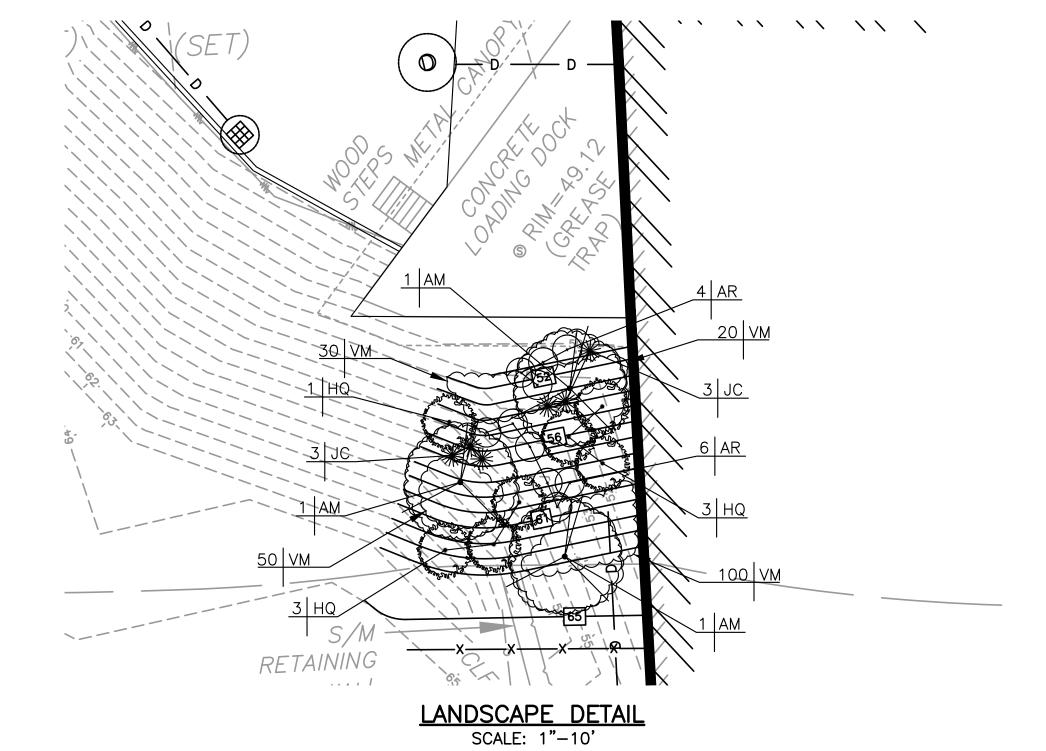


SITE PLAN

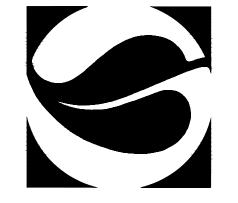
DETAIL SHEET 2 OF 4

DATE:	OCTOBER 16, 2018
PROJECT NUMBER:	17222
DESIGNED BY:	KE
DRAWN BY:	KF
CHECKED BY:	KE
5	
	SHEET 5 OF 7





	PLANT SCHEDULE								
KEY	QTY	LATIN NAME	COMMON NAME	SIZE	COMMENTS				
TREES	TREES								
AM	3	AMELANCHIER 'ROBIN HILL'	ROBIN HILL SERVICEBERRY	6-7 FT. B&B	WHITE FLOWER EARLY SPRING/MULTISTEM, 15FT X 15FT				
SHRUB	S								
AR	10	ARONIA MELANOCARPA 'LOW SCAPE MOUND'	LOW SCAPE 10 CHOKEBERRY	#2 POT	WHITE FLOWERS/ 2.5FT X 2.5FT				
HQ	7	HYDRANGEA QUERCIFOLIA 'SNOW QUEEN'	OAKLEAF HYDRANGEA	3-4 FT. B&B	WHITE SUMMER FLOWER/ 4FT. X 5FT.				
JC	6	JUNIPERUS CONFERTA 'BLUE PACIFIC'	SHORE JUNIPER	#3 POT	10" X 5FT. EVERGREEN GROUNDCOVER				
GROUN	GROUNDCOVERS								
VINCA	4 FLATS	VINCA MINOR	PERIWINKLE	FLATS/50 PLANTS					



Lorayne Black ASLA

Landscape Architect

978.302.0448 lorayne@lorayneblack.com P.O. Box 595, Groton, MA 01450

www.lorayneblack.com

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HIGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET ARLINGTON, MA 02476

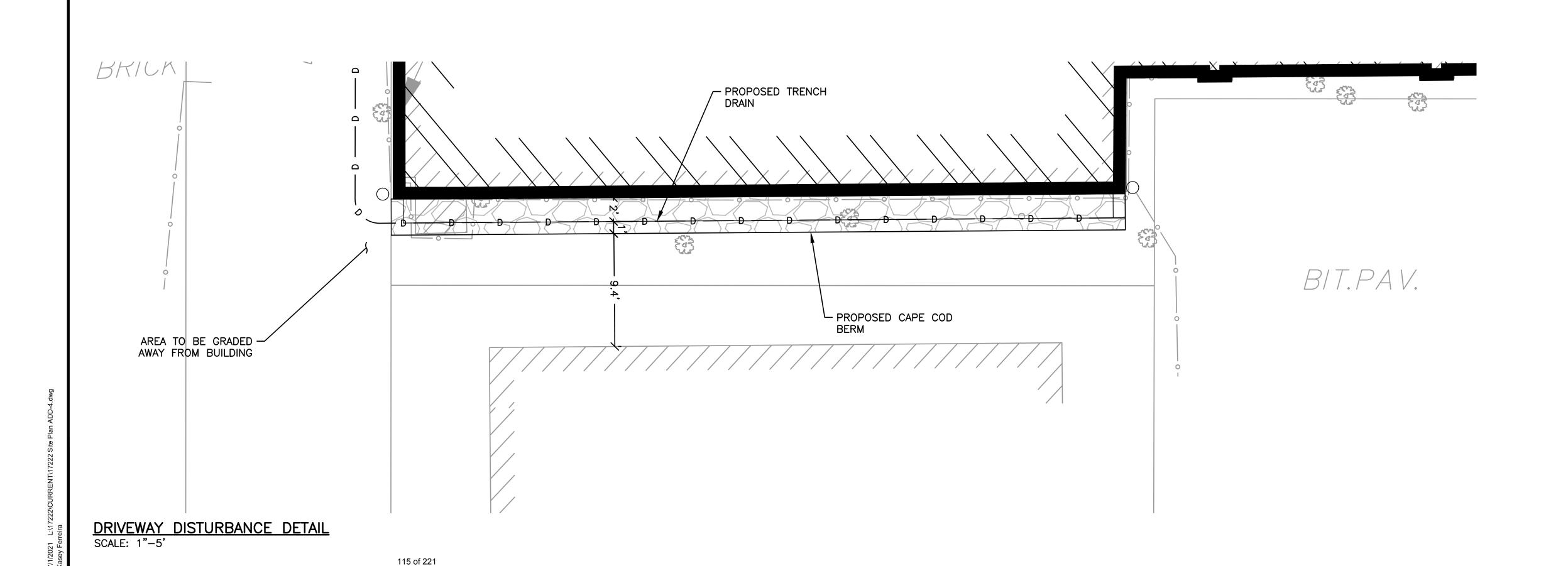
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	8	KF	07-01-21	OOC AMENDMENT			

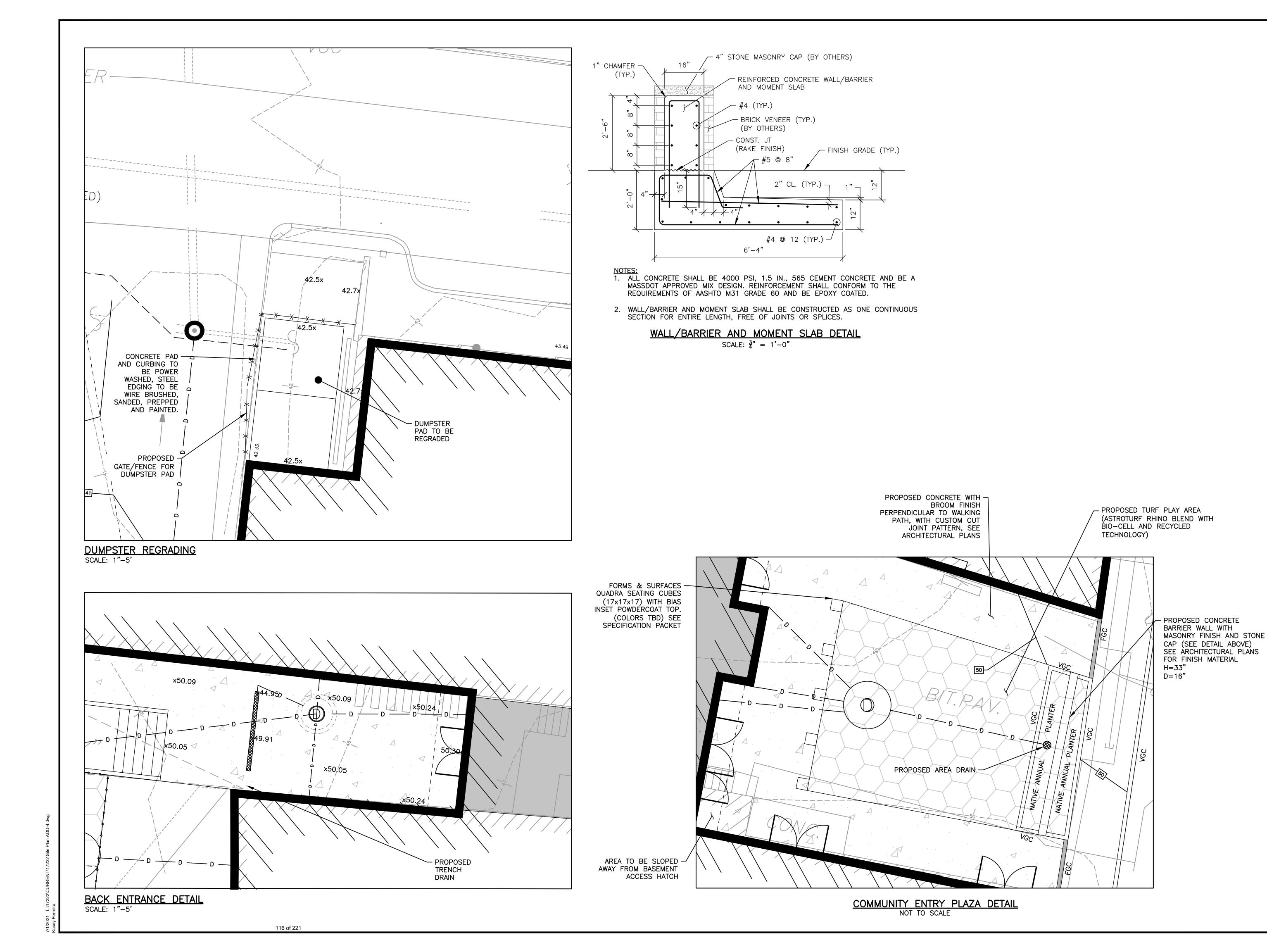


SITE PLAN

DETAIL SHEET 3 OF 4

OATE:	OCTOBER 16, 2018
PROJECT NUMBER:	17222
DESIGNED BY:	KE
PRAWN BY:	KF
CHECKED BY:	KE
6	
	SHEET 6 OF 7







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HIGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET ARLINGTON, MA 02476

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SITE PLAN

DETAIL SHEET 4 OF 4

ATE:	OCTOBER 16, 2018
ROJECT NUMBER:	17222
ESIGNED BY:	KE
RAWN BY:	KF
CHECKED BY:	KE
7	,
	SHEET 7 OF 7

SITE PLAN FOR PROPOSED RENOVATION 10, 12, 14, 16 MILL STREET ARLINGTON, MA. FOR HIGHROCK COVENANT CHURCH

GENERAL NOTES:

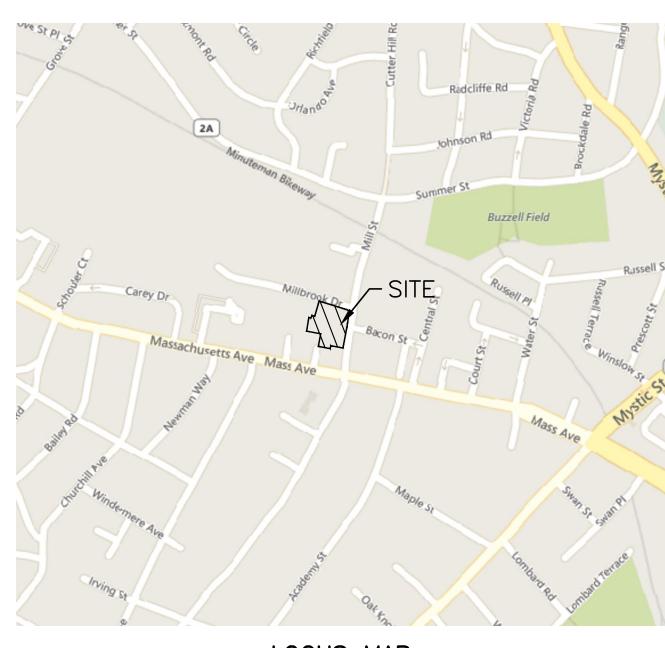
- THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT DIGSAFE AT 1-888-344-7233
- 3. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER
- 4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
- 5. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAVING.
- 6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED. REMOVED AND DISPOSED.
- 7. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.

SHEET INDEX

TITLE SHEET SHEET 2 LAYOUT AND MATERIALS PLAN SHEET 3 GRADING, DRAINAGE AND UTILITY SHEET SHEET 4 DETAIL SHEET 1 OF 4

SHEET 5 DETAIL SHEET 2 OF 4 SHEET 6 DETAIL SHEET 3 OF 4 SHEET 7 DETAIL SHEET 4 OF 4

EXISTING CONDITIONS PLAN



LOCUS MAP 1"=500'

PROJECT TEAM:

<u>APPLICANT</u> HIGHROCK CHURCH, INC. 14 MILL STREET ARLINGTON, MA 02474

CIVIL ENGINEER HOWARD STEIN HUDSON 114 TURNPIKE ROAD SUITE 2C CHELMSFORD, MA

SURVEYOR HANCOCK ASSOCIATES 34 CHELMSFORD STREET SUITE 2 CHELMSFORD, MA 01824

<u>ARCHITECT</u> MAUGEL ARCHITECTS, INC. 200 AYER ROAD SUITE 200 HARVARD, MA 02451

<u>OWNER</u>

HIGHROCK CHURCH INC 14 MILL STREET ARLINGTON, MA 02474

ASSESSORS INFORMATION

ASSESSORS MAP 52 BLOCK 1 LOT 12 ASSESSORS MAP 52 BLOCK 1 LOT 18 ASSESSORS MAP 52 BLOCK 1 LOT 19 ASSESSORS MAP 52 BLOCK 1 LOT 20.D

MASSACHUSETTS" DATED DECEMBER 11, 2013 AND REVISED THROUGH JANUARY 20, 2014.

ZONING REQUIREMENTS

I - INDUSTRIAL DISTRICT

DIMENSIONAL REQUIREMENTS

	REQUIREMENT	EXISTING*	APPROVED*	PROPOSED*
MINIMUM LOT AREA	_	_	_	_
MINIMUM LOT FRONTAGE	_	_	_	_
MINIMUM FRONT YARD	10 FT	0.5 FT±**	0.5 FT±**	0.5 FT±**
MINIMUM SIDE YARD	10 FT	0 FT±**	0 FT±**	0 FT±**
MINIMUM REAR YARD	10 FT	N/A	N/A	N/A
MAXIMUM STORIES	4	2	2	2
MAXIMUM BUILDING HEIGHT	52 FT	_	_	_
MAXIMUM FLOOR AREA RATIO	1.50	1.30±	1.38±	1.35±
* DIMENSIONS FOUND BY COMBINI	NG ASSESSORS MAP 52	2 BLOCK 1 LOTS	12, 18, 19	AND 20.D TO
PROPERLY COMPARE BETWEEN EXI	STING AND PROPOSED	CONDITIONS.		

PARKING REQUIREMENTS

** EXISTING NON-CONFORMING DIMENSION

THEATER, RESTAURANT, GYMNASIUM, AUDITORIUM OR SIMILAR PLACE OF PUBLIC ASSEMBLY WITH SEATING

500 SEATS X 1 PARKING SPACE/4 SEATS = 125 PARKING SPACES

OFFICE USE INCLUDING PROFESSIONAL, BUSINESS, OR MEDICAL AND DENTAL 1 SPACE PER 500 SF X 4,652 SF = 10 SPACES

TOTAL SPACES REQUIRED: 135 SPACES

EXISTING SPACES

PARKING AGREEMENT: 25 SPACES ON STREET PARKING: 7 SPACES TOTAL EXISTING PARKING: 32 SPACES

417

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114 Turnpike Road, Suite 2C Chelmsford, MA 01824 www.hshassoc.com

PREPARED FOR:

HIGHROCK CHURCH ARLINGTON, MA 02476

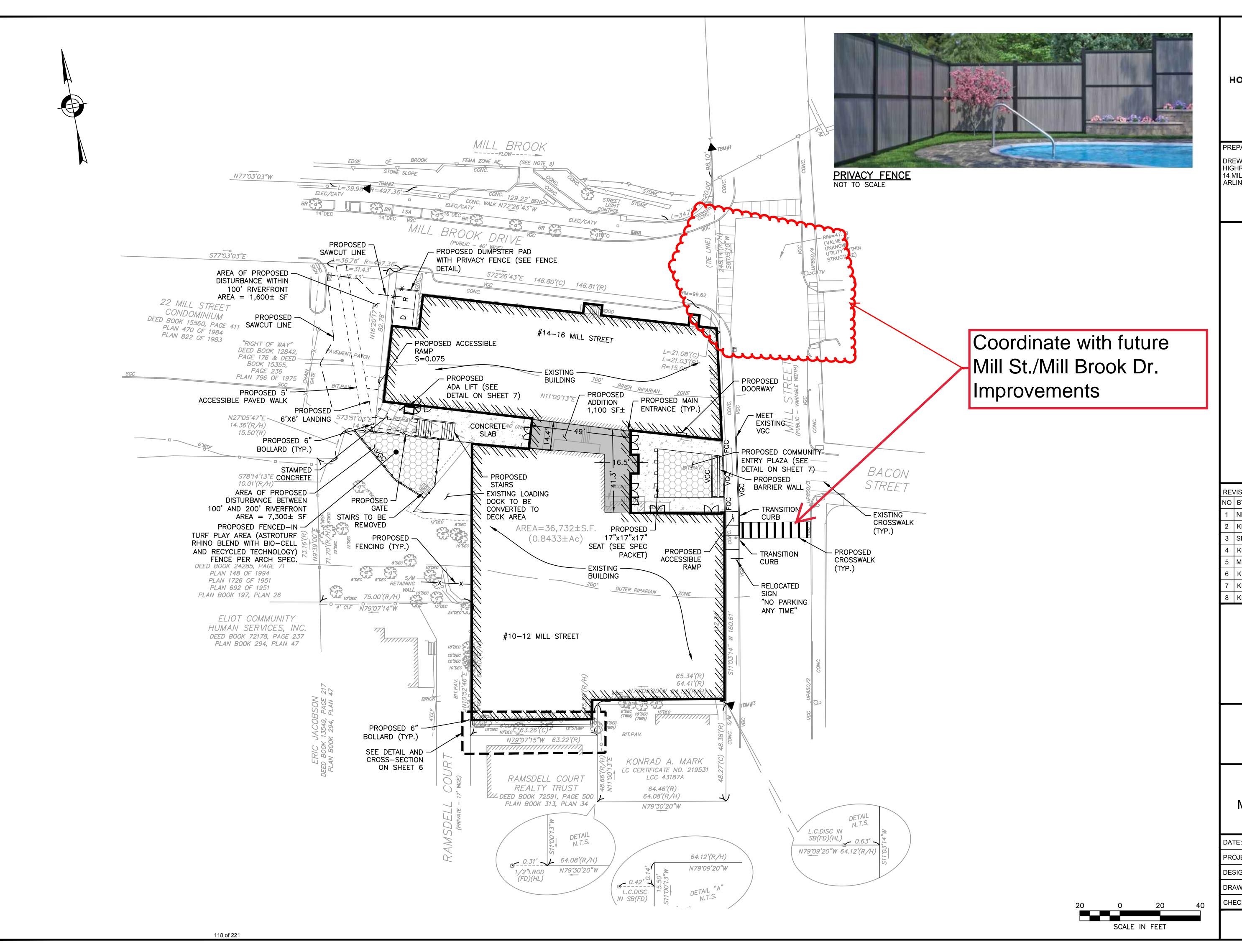
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8	KF	07-01-21	OOC AMENDMENT	



SITE PLAN

COVER SHEET

Ξ:	OCTOBER 16, 2018	
JECT NUMBER:	17222	
GNED BY:	KE	
WN BY:	KF/PS	
CKED BY:	KE	
1		
	SHEET 1 OF 7	





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HIGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET

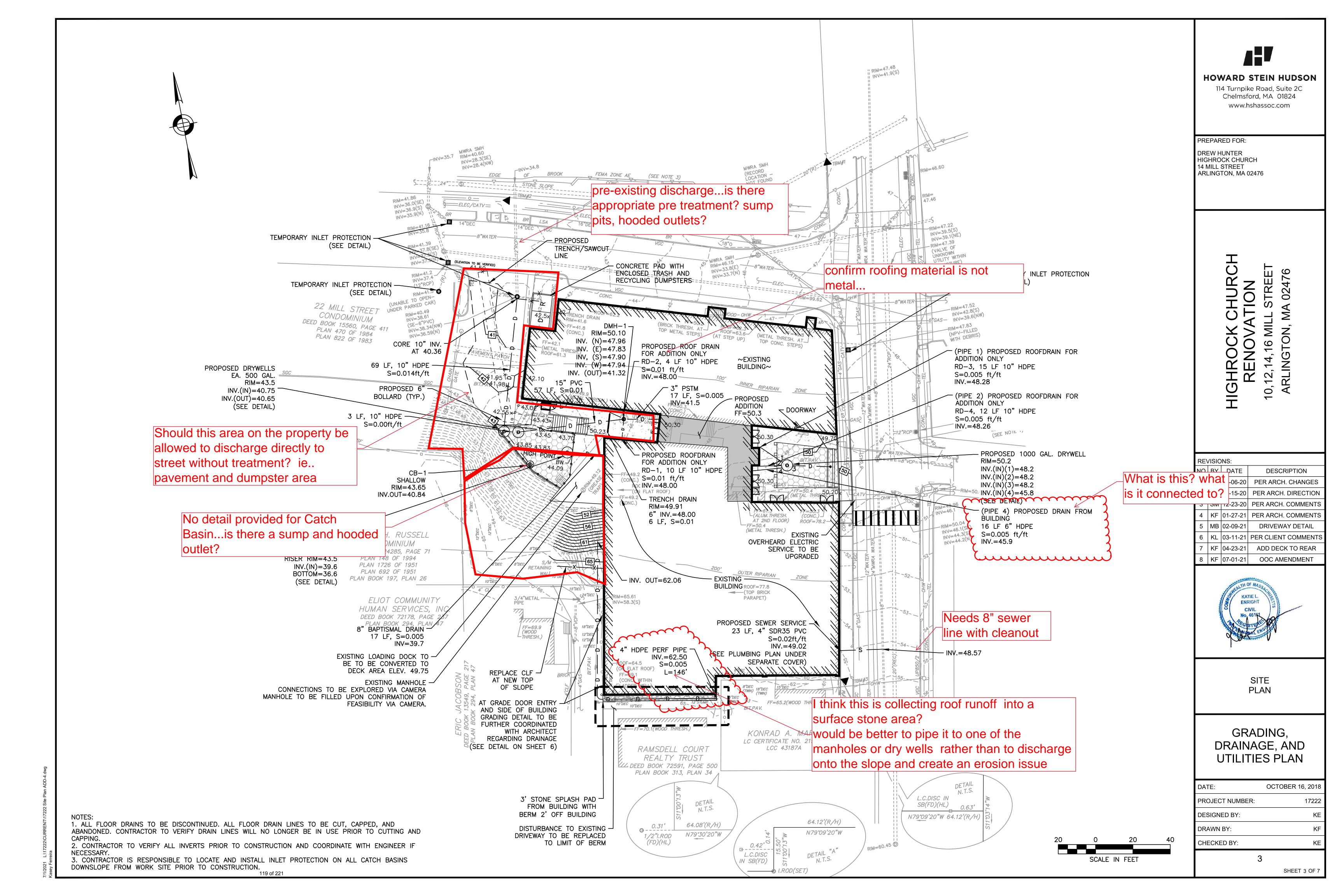
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SITE PLAN

LAYOUT AND MATERIALS PLAN

DATE:	OCTOBER 16, 2018
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DESIGNED BY:	KE
DRAWN BY:	KF
CHECKED BY:	KE
2	
	SHEET 2 OF 7

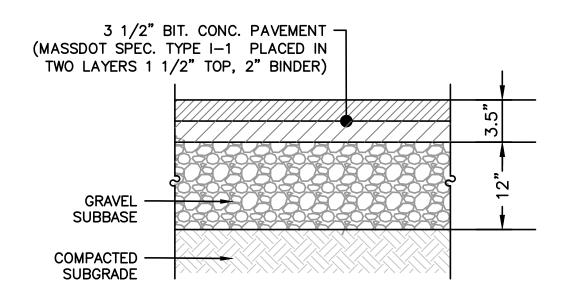


EROSION AND SEDIMENT CONTROL NOTES

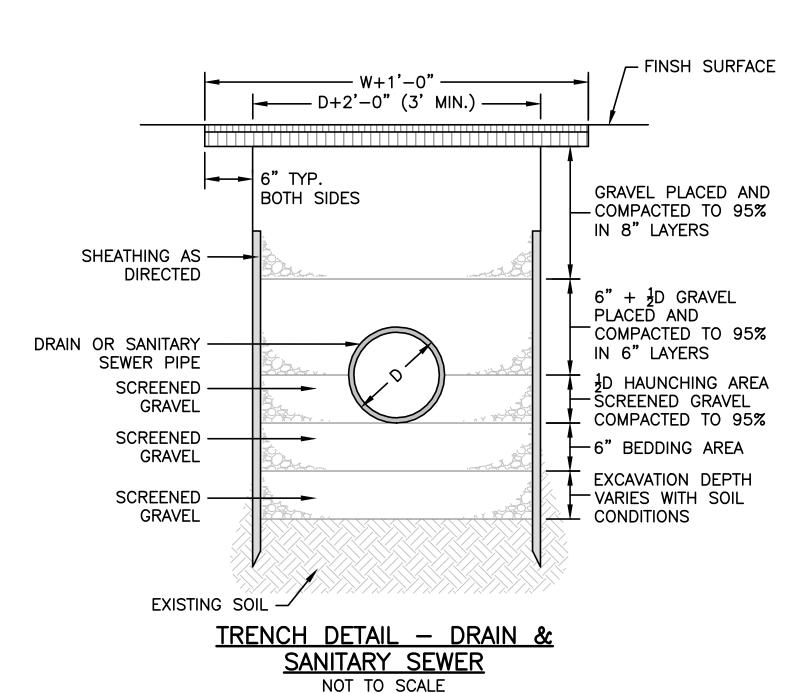
- 1. EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED AND UPGRADED AS NECESSARY DURING CONSTRUCTION BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND INSTALL ADDITIONAL CONTROL MEASURES AS NEEDED DURING CONSTRUCTION.
- 2. ALL CATCH BASINS RECEIVING DRAINAGE FROM THE PROJECT SITE MUST BE PROVIDED WITH A CATCH BASIN FILTER.
- 3. STABILIZATION OF ALL RE-GRADED AND SOIL STOCKPILE AREAS MUST BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- 4. SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROL DEVICES MUST BE PROPERLY REMOVED AND DISPOSED. ALL DAMAGED CONTROLS MUST BE REMOVED AND REPLACED.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE PROPER CITY AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING WIND EROSION AND DUST THROUGHOUT THE LIFE OF HIS CONTRACT. DUST CONTROL MAY INCLUDE, BUT IS NOT LIMITED TO, SPRINKLING OF WATER ON EXPOSED SOILS AND STREET SWEEPING ADJACENT ROADWAYS.
- 7. IF FINAL GRADING IS TO BE DELAYED FOR MORE THAN 21 DAYS AFTER LAND DISTURBANCE ACTIVITIES CEASE, TEMPORARY VEGETATION OR MULCH SHALL BE USED TO STABILIZED SOILS WITHIN 14 DAYS OF THE LAST DISTURBANCE.
- 8. IF A DISTURBED AREA WILL BE EXPOSED FOR GREATER THAN ONE YEAR, PERMANENT GRASSES OR OTHER APPROVED COVER MUST BE INSTALLED.
- 9. THE CONTRACTOR MUST KEEP ON-SITE AT ALL TIMES ADDITIONAL SILT FENCE AND HAY BALES FOR THE INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE CITY TO MITIGATE ANY EMERGENCY CONDITION
- 10. THE CONSTRUCTION FENCING AND EROSION AND SEDIMENT CONTROLS AS SHOWN MAY NOT BE PRACTICAL DURING ALL STAGES OF CONSTRUCTION. EARTHWORK ACTIVITY ON—SITE MUST BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO A SEDIMENT CONTROL DEVICE OR INFILTRATED TO THE GROUND.
- 11. DEMOLITION AND CONSTRUCTION DEBRIS MUST BE PROPERLY CONTAINED AND DISPOSED OF.
- 12. DISPOSAL OF ALL DEMOLISHED MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE HAULED OFF—SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.
- 13. DURING CONSTRUCTION, EVERY EFFORT SHALL BE MADE TO MINIMIZE CONSTRUCTION WASTE AND DEBRIS.
- 14. EVERY EFFORT SHALL BE MADE TO MINIMIZE AIR POLLUTION, SEDIMENTATION, WIND EROSION, DUST, AND CONSTRUCTION DEBRIS TO MAINTAIN A HEALTHY CONSTRUCTION ENVIRONMENT.

GENERAL CONSTRUCTION SEQUENCE

- 1. INSTALL EROSION AND SEDIMENT CONTROLS PRIOR TO STARTING ANY EARTHWORKS ACTIVITY.
- 2. INSTALL/UPGRADE SITE FURNISHINGS.
- 3. INSTALL PAVEMENT AND CURBS.
- 4. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED.

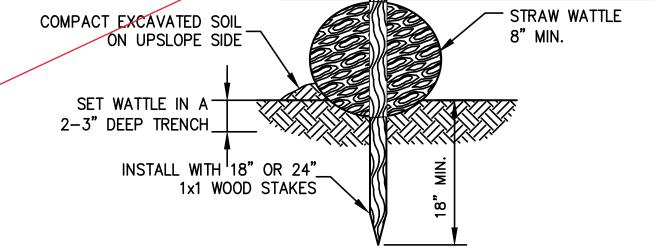


FULL DEPTH PARKING LOT SECTION DETAIL NOT TO SCALE



DRIVE STAKE UNTIL 2–3"

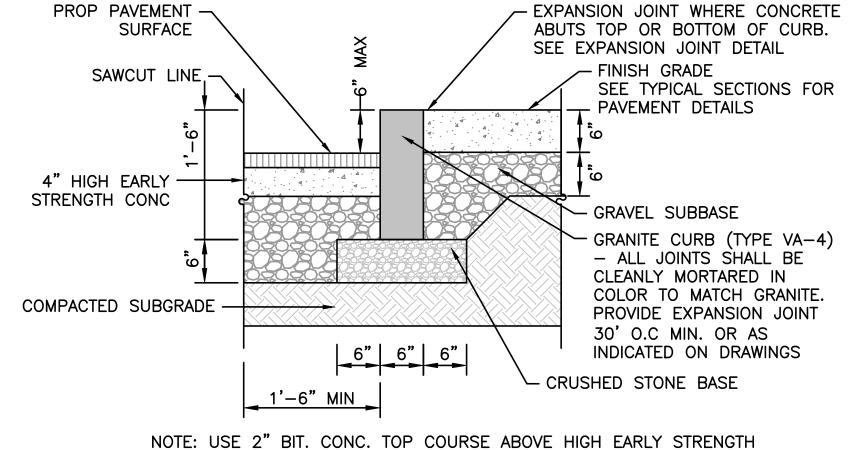
Specify inspection and maintenance interval for contractor reading the plan?
Easier to have them provide a weekly report or after storms rather than being the Erosion Control police...also have notes requiring any runoff into the street to be cleaned and removed daily



NOTES:

- 1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3"(5-7.5 CM) DEEP X 9"(22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
- 2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
- 3. SECURE THE WATTLE WITH 18-24" (45.7-61 CM) STAKES EVERY 3-4' (0.9 1.2 M) AND WITH A STAKE ON EACH END. (STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.

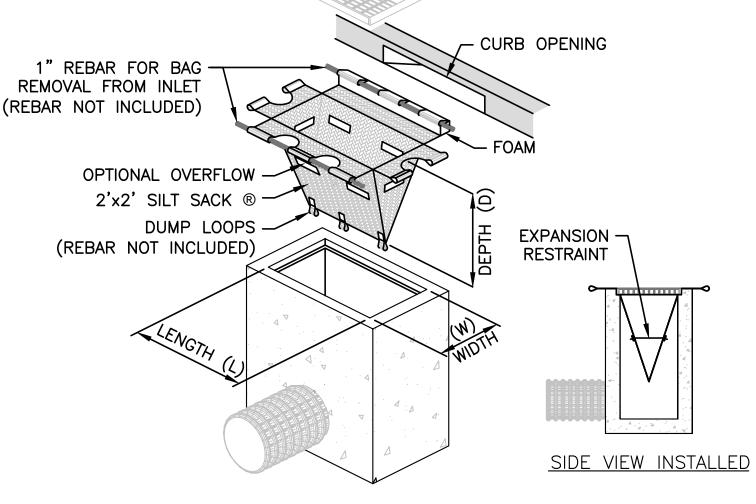
STRAW WATTLE DETAIL NOT TO SCALE



CONCRETE FOR RESETTING CURBS

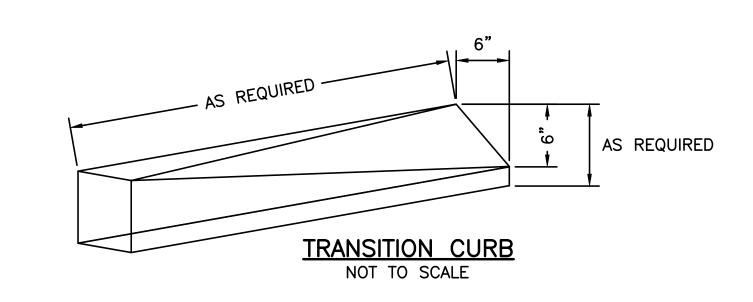
VERTICAL GRANITE CURB

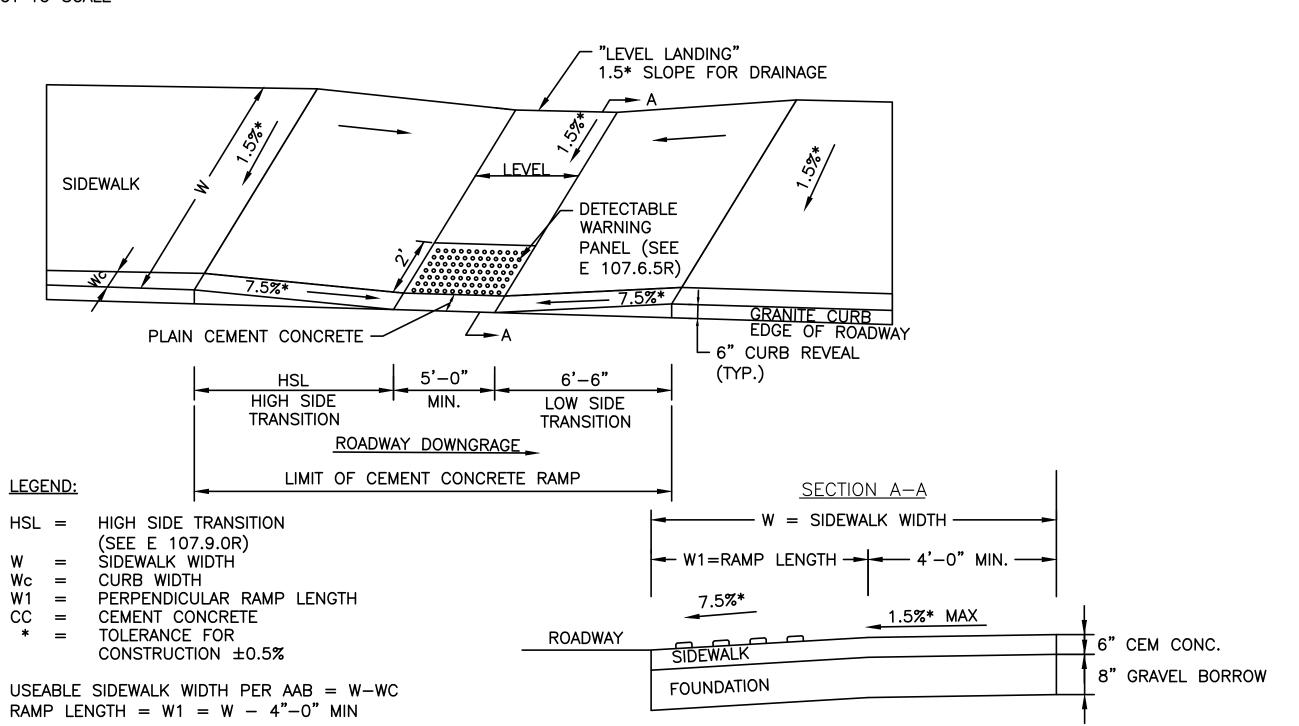
NOT TO SCALE



TEMPORARY INLET PROTECTION

NOT TO SCALE





WHEELCHAIR RAMPS ON NARROW SIDEWALK WITH

DETECTABLE WARNING PANEL (E107.2.1R)

NOT TO SCALE



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3	SM	12-23-20	PER ARCH. COMMENTS	
4	KF	01-27-21	PER ARCH. COMMENTS	
5	МВ	02-09-21	DRIVEWAY DETAIL	
6	KL	03-11-21	PER CLIENT COMMENTS	
7	KF	04-23-21	ADD DECK TO REAR	
8	KF	07-01-21	OOC AMENDMENT	
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SITE PLAN

DETAIL SHEET 1 OF 4

DATE: OCTOBER 16, 2018

PROJECT NUMBER: 17222

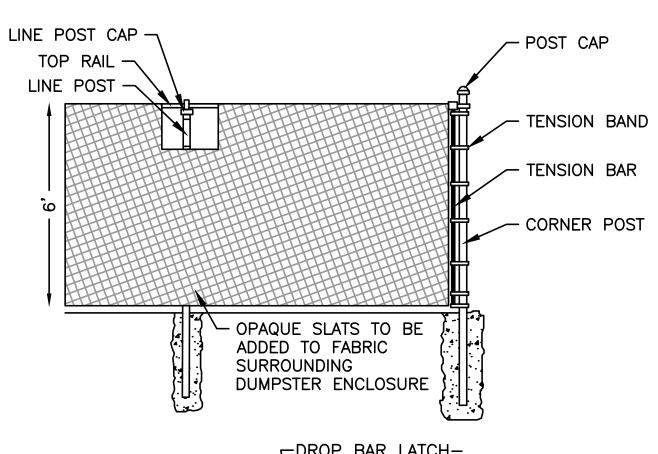
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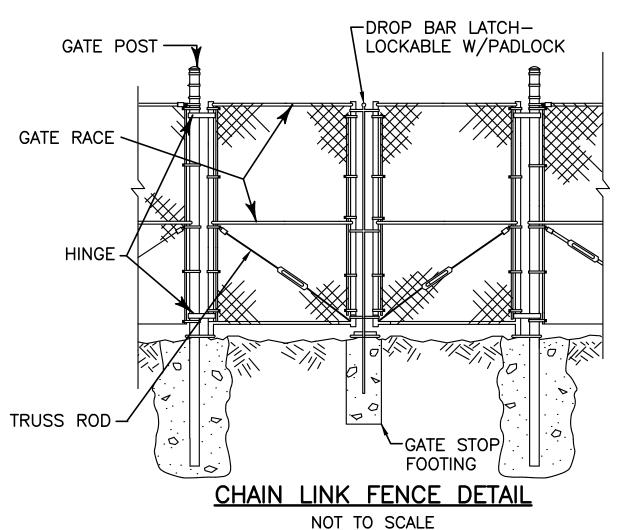
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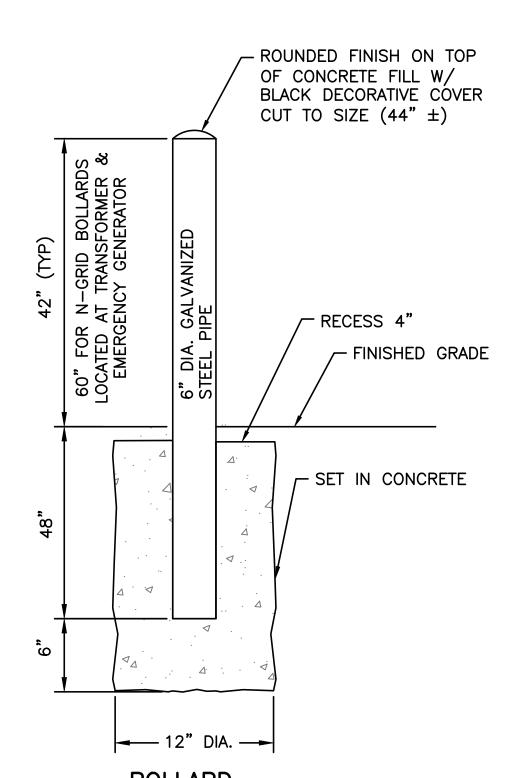
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SHEET 4 OF 7



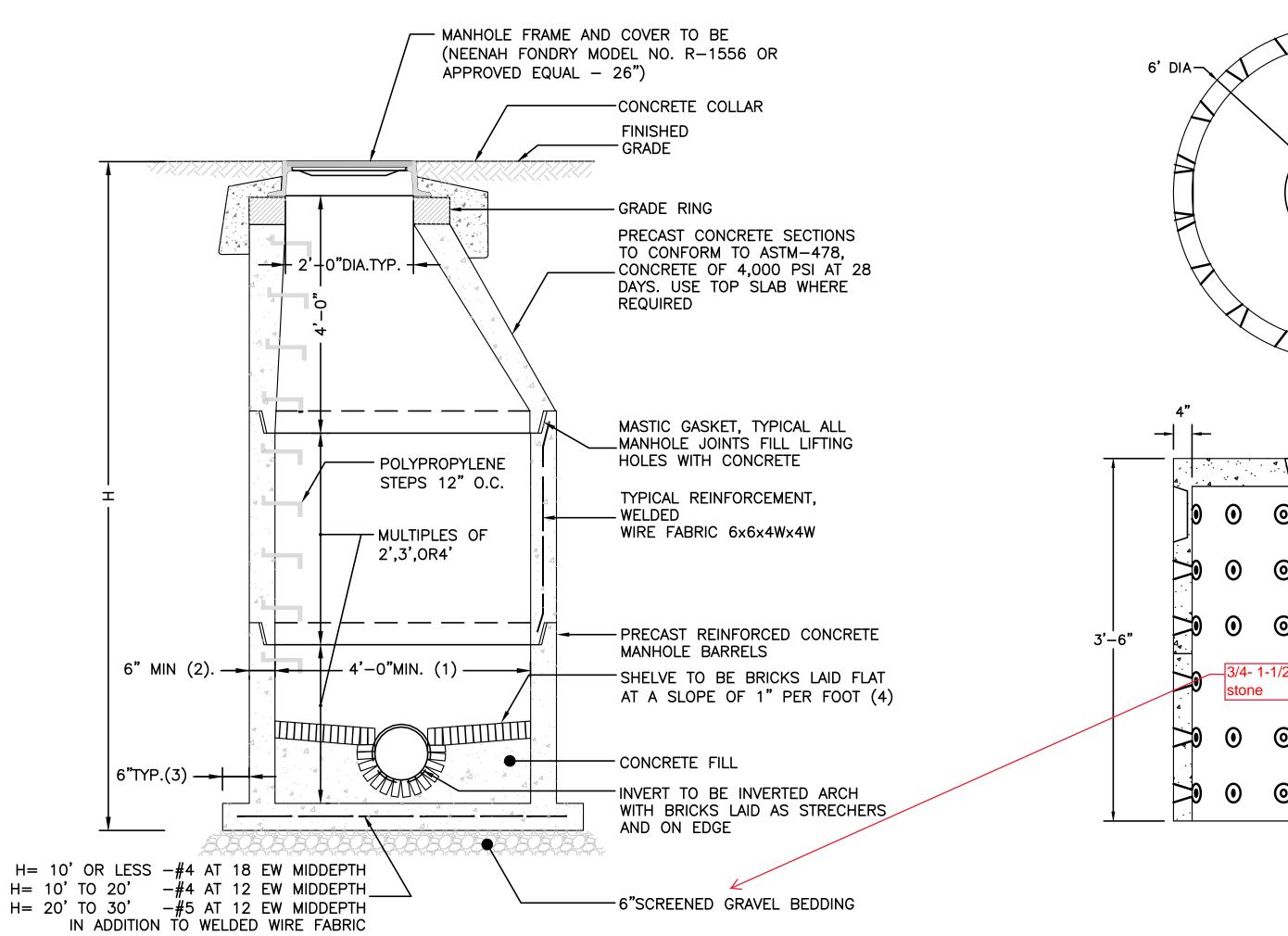




BOLLARD NOT TO SCALE

NOTE:

- 1. DIG POST HOLE FOR BOLLARD, PARTIALLY FILL HOLE WITH CONCRETE MIX, INSTALL PIPE, FILL HOLE, AND FILL PIPE W/CONCRETE MIX.
- 2. SUPPORT BOLLARD AND PROTECT FROM DAMAGE WHILE CONCRETE CURES. THEN PAINT WITH APPROPRIATE PAINT. COLOR AS REQUIRED BY OWNER.



NOTES: 1. 5'-0" DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 20 FEET OR WHEN ORDERED BY THE ENGINEER.

- 6 INCH MIN. WALL THICKNESS AND 7 INCH MIN. BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.
 6 INCH LIP OPTIONAL UNLESS OTHERWISE NOTED. CONCRETE INVERT AND SHELF MAY BE SUBSTITUTED IN STORM DRAIN MANHOLES AS DIRECTED BY THE ENGINEER.
 - PRECAST CONCRETE MANHOLE

 NOT TO SCALE

NOTES:

- 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
- 2. AVAILABLE IN H-20 LOADING.
- 3. CAPACITY INCREASES IN INCREMENTS OF 500 GALLONS FOR EACH 3' SECTION ADDED.

	ITEM NO.		WEIGHT
1000 GALLON	DW-1000SDW	STANDARD	6,778#
	DW-1000SDWH	H-20	6,778#
3' STACKABLE	DW-3SS		2,008#

20" DIA INSPECTION COVER

PRECAST CONCRETE DRYWELL

NOT TO SCALE

SHAE CONRETE PROCUTS TM

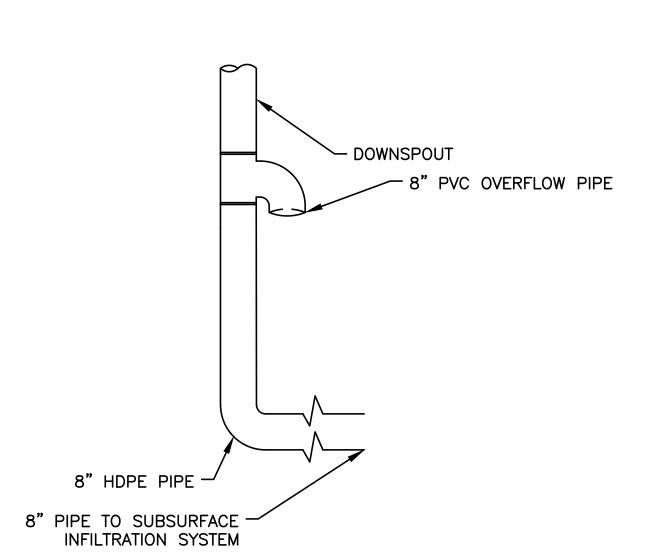
SECTION VIEW

PLAN VIEW

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SHEA

-DRAIN HOLES 4" TO 1.5" TAPERED



ROOF DRAIN DOWNSPOUT AND OVERFLOW

SECTION DETAIL

NOT TO SCALE

451

HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C Chelmsford, MA 01824 www.hshassoc.com

PREPARED FOR:

DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

HIGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET ARLINGTON, MA 02476

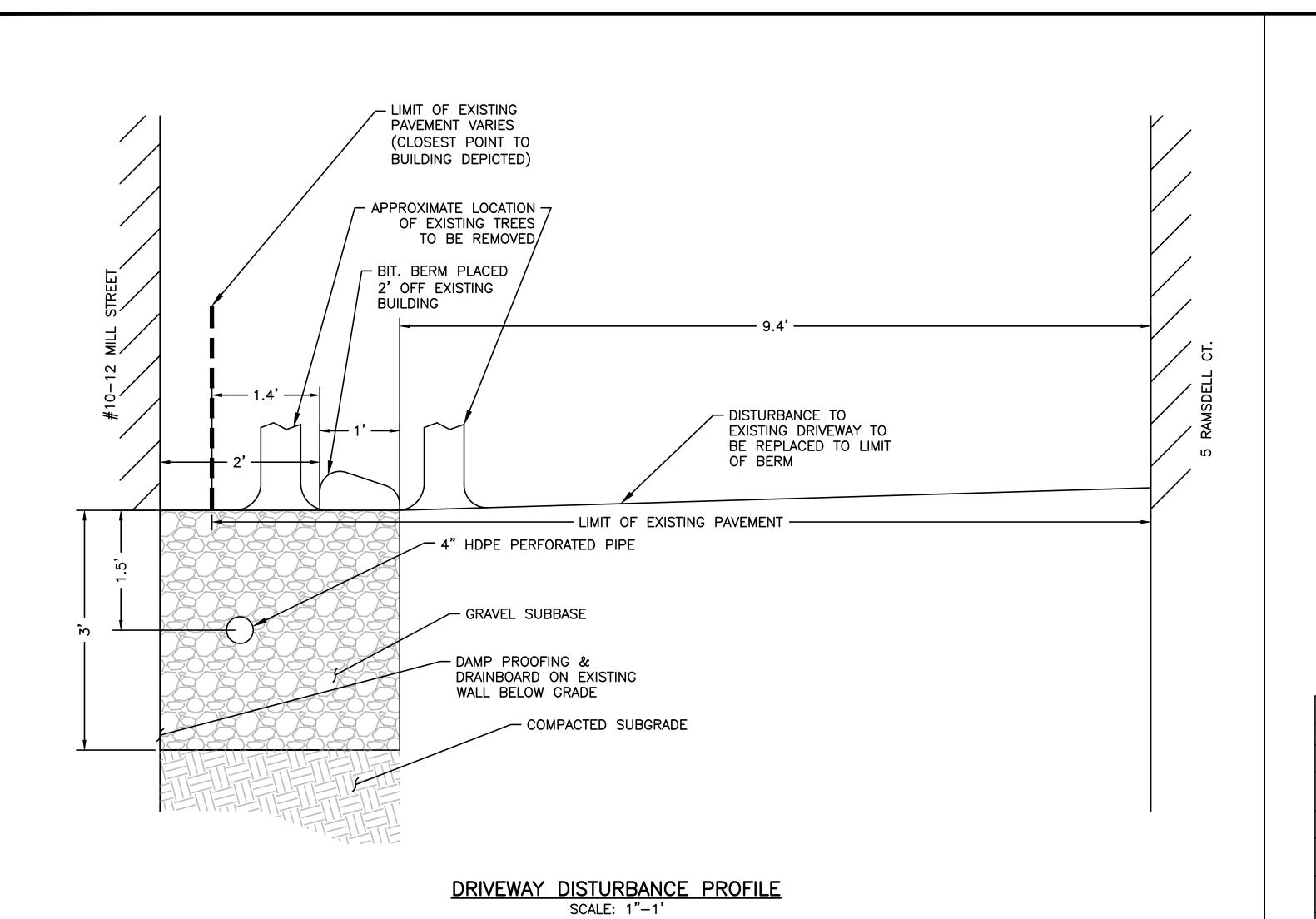
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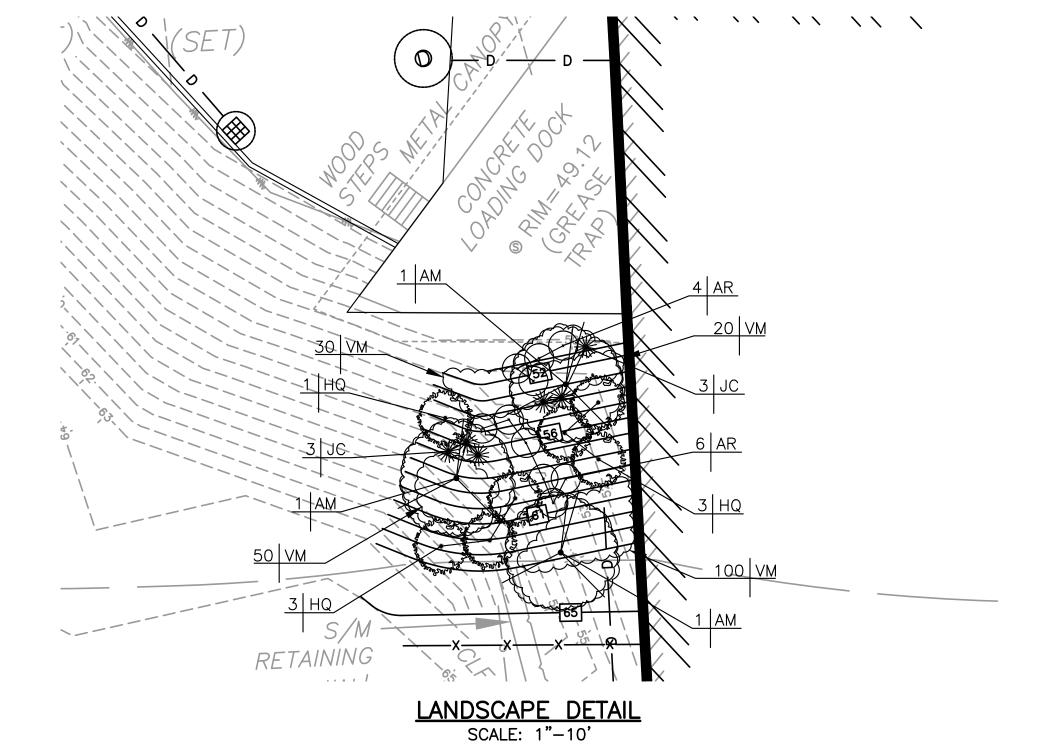


SITE PLAN

DETAIL SHEET 2 OF 4

OCTOBER 16, 2018
17222
KE
KF
KE
SHEET 5 OF 7





	PLANT SCHEDULE							
KEY	QTY	LATIN NAME	COMMON NAME	SIZE	COMMENTS			
TREES								
АМ	3	AMELANCHIER 'ROBIN HILL'	ROBIN HILL SERVICEBERRY	6-7 FT. B&B	WHITE FLOWER EARLY SPRING/MULTISTEM, 15FT X 15FT			
SHRUE	S							
AR	10 ARONIA MELANOCARPA 'LOW SCAPE MOUND'		LOW SCAPE 10 CHOKEBERRY	#2 POT	WHITE FLOWERS/ 2.5FT X 2.5FT			
HQ	7 HYDRANGEA QUERCIFOLIA 'SNOW QUEEN'		OAKLEAF HYDRANGEA	3-4 FT. B&B	WHITE SUMMER FLOWER/ 4FT. X 5FT.			
JC	6	JUNIPERUS CONFERTA 'BLUE PACIFIC'	SHORE JUNIPER	#3 POT	10" X 5FT. EVERGREEN GROUNDCOVER			
GROUN	IDCOVE	RS						
VINCA	4 FLATS	VINCA MINOR	PERIWINKLE	FLATS/50 PLANTS				



Lorayne Black ASLA

Landscape Architect

978.302.0448 lorayne@lorayneblack.com P.O. Box 595, Groton, MA 01450

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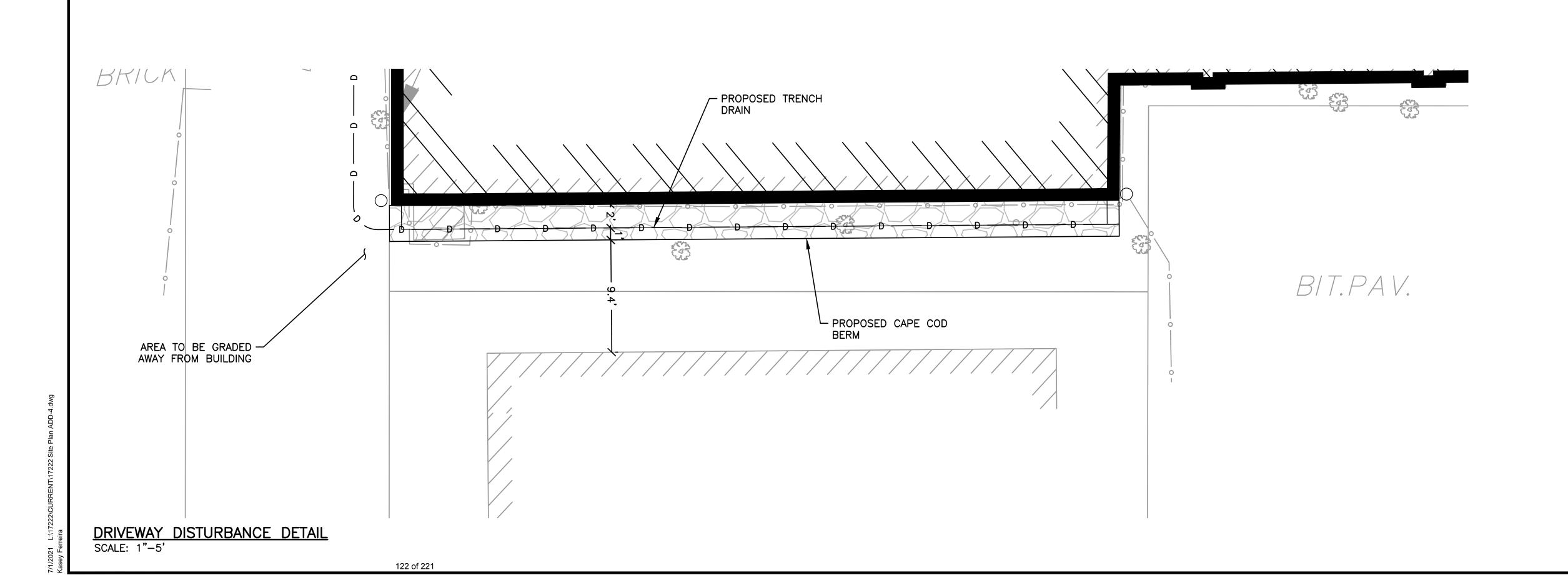
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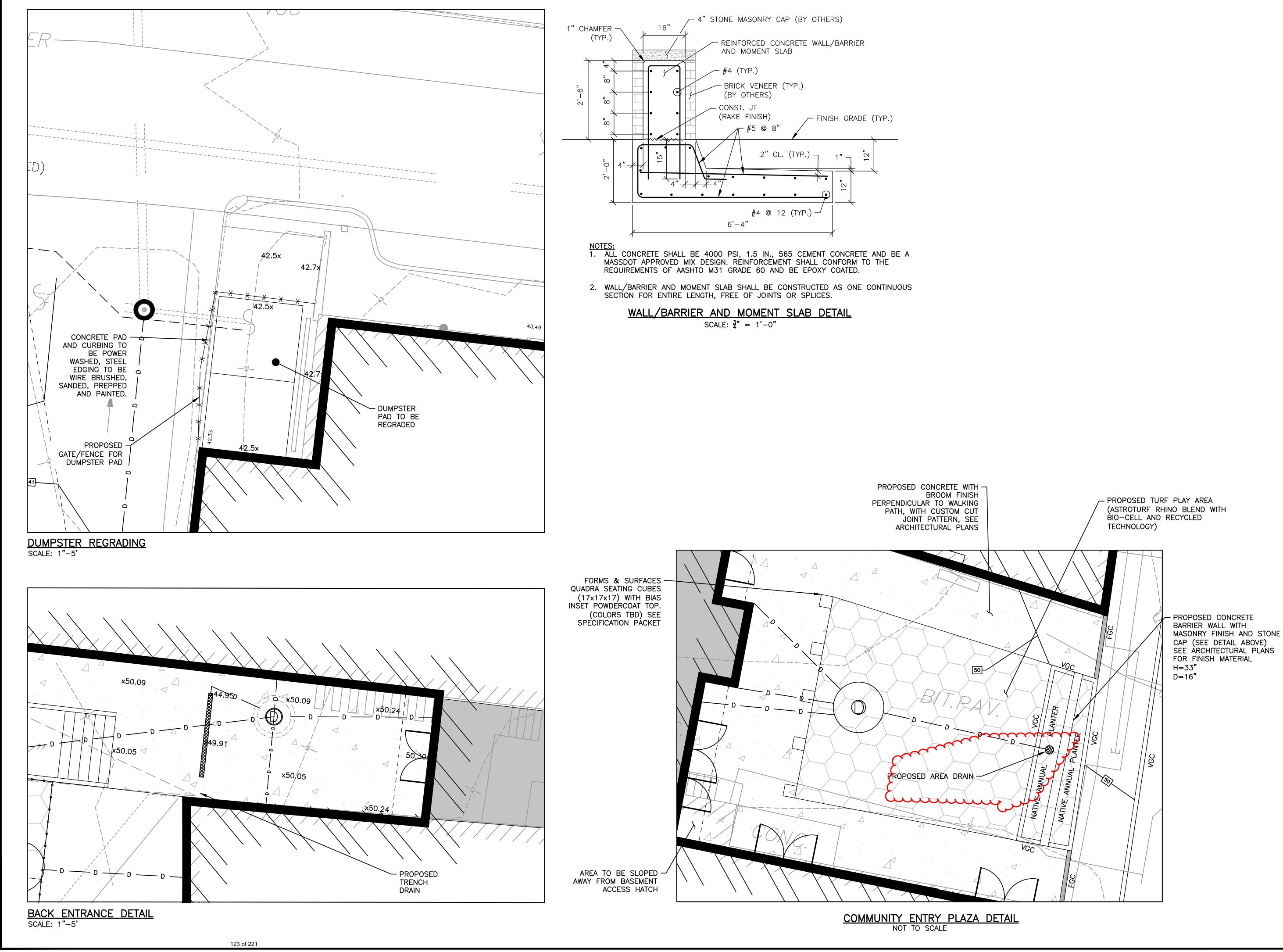


SITE PLAN

DETAIL SHEET 3 OF 4

ATE:	OCTOBER 16, 2018
ROJECT NUMBER:	17222
ESIGNED BY:	KE
RAWN BY:	KF
CHECKED BY:	KE
6	
	SHEET 6 OF 7





427

HOWARD STEIN HUDSON

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PREPARED FOR:

DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

> HIGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET ARLINGTON, MA 02476

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SITE PLAN

DETAIL SHEET 4 OF 4

ATE:	OCTOBER 16, 2018
ROJECT NUMBER:	17222
ESIGNED BY:	KE
RAWN BY:	KF
HECKED BY:	KE
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	SHEET 7 OF 7

July 29, 2021

Emily Sullivan, AICP Town of Arlington Conservation Commission 730 Massachusetts Ave Arlington, MA 02476

Re: Response to Review Comments

10, 12, 14, 16 Mill Street - Arlington, MA

Dear Ms. Sullivan,

Howard Stein Hudson has received review comments from Wayne Chouinard dated July 20, 2021 via a PDF entitled "10-16 Mill St Amendment Plan -WACcomments for ES", and has prepared the following responses.

General:

1. Street improvements such as proposed crosswalk should be coordinated with any future Mill Street/Mill Brook Drive improvements.

Response: All proposed work will be coordinated with all future improvements within the surrounding Mill Street and Mill Brook Drive.

2. Is there appropriate pre-treatment for pre-existing discharge on site, i.e. sump pits or hooded outlets?

Response: The existing discharge flows into the catch basin shown in the entry driveway to the rear of the site. Treatment information for this existing catch basin is unknown, however, less impervious will runoff to this catch basin in the post condition than in the pre, resulting in less runoff directly to that catch basin with unknown treatment. Some of the existing area that was impervious, or used to sheet flow to that catch basin will now be intercepted by a new catch basin which will be built to standard with a 4' sump and a hooded outlet.

3. Confirm roof material is not metal.

Response: The roofs are proposed to remain as they exist for the two existing buildings, which is a black rubber. The roof material for the addition is proposed to be "0.060 fully adhered TPO roof membrane by Firestone Ultraply TOP non-reinforced – color to be grey." (Per Architect)

4. Should the Northern section of the paved lot be allowed to discharge directly to the street without pretreatment?

Response: This area discharges to an existing catch basin in the entrance of the rear driveway of the property, shown with rim elevation of 40.49. This is an existing condition that will not be made worse in the post-development condition than the predevelopment condition.

5. What is "Pipe 4" leading to the east drywell? What is it connected to?

Response: Pipe 4 is connected to the sump pump of the elevator located within the building.

6. Provide a detail for the proposed catch basins on site.

Response: AA detail for the catch basin has been added to the detail sheet of the plans. The catch basin is proposed to have a 4' sump as well as a hooded outlet.

7. An 8" sewer line with cleanout is required for the building.

Response: Sewer service has been revised to be 8".

8. The perforated pipe located to the south of the building would be better to pipe to a manhole or drywell rather than discharge onto the slope and create erosion issues.

Response: The area currently is paved to the side of the building, and sends runoff against the building, and towards the slopes on the south side of the building. The proposal is to create an area where the water can collect so it does not runoff to the grass slopes along the south side of the building, but instead infiltrate some within the stoned area. Excess water will be collected by the 4" perforated pipe, and piped around the building to a discharge point on the west side of the existing building. At this discharge point, 6 linear feet of 4" HDPE perforated pipe has been added at a 90 degree angle to serve as a dissipation device and slow water. Stone has also been added around the 4" perforated pipe to further slow water and dissipate any velocity out of the outlet.

9. Specify inspection and maintenance interval for contractor reading the plan. It is easier to have them provide a weekly report or after storms. Also, notes should require any runoff into the street to be cleaned and removed daily.

Response: Language has been added to require inspection and maintenance reports be submitted to Arlington Engineering on a weekly basis, or after storm events greater than 1". A note has also been added that runoff and sediment shall be cleaned from the street on a daily basis.

10. The precast concrete manhole detail should show $\frac{3}{4}$ " - 1 $\frac{1}{2}$ " crushed stone rather than 6" screened gravel bedding.

Response: Screened gravel has been revised to crushed stone, ¾" – 1 ½" in size.

Please see attached materials:

- Updated Site Plans
- Updated Supplemental data report

Please do not hesitate to call Howard Stein Hudson's Chelmsford Office with any questions or concerns.

Sincerely,

Kasey Ferreira, E.I.T

Civil Engineer

Katie Enright, P.E. Associate Principal



SUPPLEMENTAL DATA REPORT

Proposed Renovation 10, 12, 14-16 Mill Street For Highrock Covenant Church

Arlington, Massachusetts

Prepared by:

Howard Stein Hudson 114 Turnpike Road, Suite 2C Chelmsford, MA 01824

July 2021



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Existing Conditions

The project site, located at properties 10, 12, 14-16 Mill Street in Arlington is approximately $0.85\pm$ acres. The parcels are currently home to two time-worn mill buildings. In between the mill buildings is a patch of pavement currently used as parking for the visitors of these mill buildings and access to an overhead door to an active Bodyshop. To the rear of the mill buildings (from Mill Street) is more pavement used as parking for employees who work within the mill buildings. At the rear of the mill building located at 10 Mill street is a concrete loading dock with stairs down to the rear parking area. The building located at 14-16 Mill Street is located at the corner of Mill Street and Mill Brook Drive, across Mill Brook Drive from the adjacent Mill Brook.

Access to the site is currently served in three locations. There is a small parking lot between the two buildings accessed from Mill Street as well as a small paved parking area in the rear accessed from Mill Brook Drive. There is also on street parking along Mill Brook Drive for High Rock Church members.

Runoff from the site currently drains to Mill Brook. Either through sheet flow or through a series of catch basins offsite, all stormwater, and associated pollutants, is believed to flow directly to Mill Brook.

Site utilities including gas, water, and overhead electric are serviced through Mill Street. Site sewer for the building located at 10 Mill Street is serviced through the rear of the site at Ramsdell Court.



Proposed Conditions

The proposal calls for the redevelopment of the mill site into a modern church. Both mill buildings are to be fully renovated, with a portion of the roof at 10-12 Mill Street to be raised, as well as an addition being proposed to connect the buildings. This addition, approximately 1,100 sf, will take land currently occupied by pavement which is used for parking. The remainder of the existing parking area will be transformed into a pedestrian plaza.

In the rear, what is currently an outdoor loading dock will become housed within the mill building as storage. The proposed addition will contain an entry to either side of the existing buildings, in the rear from the rear parking area and at the Mill Street frontage for those visiting from the east. The rear entry point will be provided with accessibility by an ADA lift.

Stormwater from the improved site to Mill Brook is proposed to be improved through the elimination of pavement for parking and the introduction of three drywells, as well as a deep sump hooded catch basin. All stormwater generated by the roof of the addition will be captured and infiltrated through the drywells. Some existing flows will also be redirected into the drywells, and the remainder of the stormwater generated on site will continue to flow as it does in the existing condition and run through a series of catch basins offsite to Mill Brook.



Zoning

Industrial (I) Zoning District

<u>Dimensional Requirements</u>	Required	Existing	Proposed
Minimum Lot Area	-	-	-
Minimum Lot Frontage	-	-	-
Minimum Front Yard	10 ft	0.5± ft*	$0.5\pm$ ft*
Minimum Side Yard	10 ft	0± ft*	$0\pm$ ft*
Minimum Rear Yard	10 ft	N/A	N/A
Maximum Building Stories	4	2	2
Maximum Building Height	52 ft	-	-
Maximum Floor Area Ratio	1.50	1.30±	1.38±

Environmental Design Review Narrative

1. Preservation of Landscape.

The proposal calls for the landscape to be enhanced while providing no new disturbances to existing trees, vegetation and soils on the site. Areas currently used as parking will be transformed into a small structure and a pedestrian plaza with 165 square feet of new planting areas added within the site where pavement once existed.

2. Relation of Buildings to the Environment.

The proposal calls for a small structure (884 sf) to be placed, set back from Mill Street and hidden within a pocket between the two existing structures, a vestibule, keeping within the heights of the existing structures and proposed in masonry, metal and aluminum to blend and bridge the two existing structures together without taking away from the existing structures while providing connectivity.

3. Open Space.

The proposal calls for the existing parking lot to be transformed into a protected pedestrian plaza, visible only to those using the sidewalk adjacent to the property or approaching the



property from the east. The space will be protected by landscape planters and the space will be outfitted with benches for pedestrian use. This area will be utilized by the Church for gatherings or just a welcoming exterior place for people to congregate together, enjoy coffee, lunch or conversation. The area has been designed with materials that require minimal maintenance and security, while providing a functional, comfortable space.

4. Circulation.

The proposed project will utilize two existing structures with frontage on both Mill Brook
Drive and Mill Street, a public parking lot, and access to the west of the structures. The
proposal calls for the parking lot in between the two structures, with access from Mill Street to
be abandoned and transformed into a pedestrian plaza with a definitive and welcoming entry
into the newly combined church structure. The vestibule will also provide a second main entry
to the rear of the structure, adjacent to the public parking lot. These entries will provide an
area to access all parts of the church facility, a directory and elevator for access and provide
direction, in one place, to all who enter the newly connected structure.

The new layout also provides for bicycle storage at the rear entry, adjacent to the parking area for use by both employees and visitors of the church.

Visitors and employees will be asked to park adjacent to the building on Mill Brook Drive, in the rear parking lot and within on street parking, currently used by the existing church location.

A study, conducted by the church, indicates that the current visitors of the church park in close proximity to the current services and this new location will only slightly change the area in which the spaces will be drawn.

5. Surface Water Drainage.

In the existing condition, there is currently only roof drain collection on site, to capture stormwater and connect straight to the drainage system in Mill Brook Drive that discharges directly to Mill Brook. The proposal calls for the reduction in impervious surfaces and paved parking, creating less parking surface, so cleaner stormwater and larger pervious areas allowing for increased infiltration. The proposal also calls for two shallow drywells to be constructed within the area adjacent to the rear parking lot, collecting the new roof runoff created by the building addition, increasing the recharge for the site.

6. Utility Service.



All utilities for the buildings will remain unchanged. The proposed addition will be connected through existing onsite services.

7. Advertising Features.

There are no outside signs or advertising structures proposed as part of this submittal.

8. Special Features.

The proposal calls for an additional dumpster and recycling bin to be placed at the rear of the building, nearest the existing loading dock. The proposal calls for the area to be screened by a fence. Also, as part of the submission, the Architect has proposed to remove all utilities at the rear entry and place them, screened, on the rooftop of the addition.

9. Safety.

The proposal calls for the entry doors to be properly lit, and open spaces, exterior stairs and enclosed pedestrian areas to be lit with soft, unobtrusive, pedestrian scale lighting.

10. Heritage.

The proposal reuses the existing mill structures at the site with limited changes to the exterior of the building. The new connector vestibule has been designed to minimize the impact to the existing structures while providing function.

11. Microclimate.

The proposal calls for the increase in pervious, landscape surfaces, an enhanced thermal performance of affected exterior wall and roof assemblies, use of natural daylighting, where appropriate, grey membrane roofing materials in lieu of black, and new energy efficient windows and doors.

12. Sustainable Building and Site Design.

The proposal has been designed to limit the impervious surfaces on site and utilize the existing parking available to the site by sharing spaces within the neighborhood. The site incorporates infiltration practices by capturing the roof drains from the proposed addition and recharging the water on site rather than collect and discharge that stormwater directly to the brook. On site parking has been removed in lieu of a pedestrian plaza, creating an outdoor area for gatherings and exterior space for the employees and patrons of the church. The proposal also incorporates bike racks to allow for other modes of transportation to the site.

PROPOSED RENOVATION OF HIGHROCK COVENANT CHURCH

10, 12, 14-16 Mill Street, Arlington, MA



The new building and improvements to the existing structures also contributes greatly to the sustainability of the project.

Please see attached overview by the Architect to see how the building addresses these priorities.



Hydrology

All existing rainfall which falls onto the site currently runs to Mill Brook either through direct flow over land or through a series of catch basins located offsite.

The post-development condition proposes to improve runoff quality and quantity to Mill Brook by reducing the amount of impervious on site and by capturing all of the stormwater generated by the proposed addition and infiltrating a portion of it through a series of drywells.

Stormwater Management Standards

Standard 1: No new untreated discharges

Not applicable, this project does not propose any stormwater outfalls.

Standard 2: Post-development peak discharge rates not to exceed pre-development peak discharge rates

The central area being altered by coverage is in between the buildings where the addition is proposed. Currently, the area is pavement and all runoff generated by the pavement goes to Mill Brook. In the post-development condition, building and rooftop are proposed where the pavement currently lies. Both pavement and rooftops are considered impervious, and therefore generate the same amount of stormwater. In the post-development condition, all of the stormwater generated by the addition will be captured and a portion will be infiltrated. Therefore, in the proposed condition, Mill Brook is receiving less overall stormwater.

Standard 3: Minimize or eliminate loss of annual recharge to groundwater

In an effort to add recharge to the existing redevelopment project, the stormwater management system has been designed to capture and infiltrate runoff required from the new impervious roof surface connecting the existing structures.

Rv = F x impervious area

Rv = Required Recharge Volume, expressed in Ft³, cubic yards, or acre-feet

F= Target Depth Factor associated with each Hydrologic Soil Group

Impervious Area = net new impervious area in the post development condition



All Soils in the area of the development are classified as Urban Fill. For this exercise we will conservatively assume Hydrologic Soil Group B.

Rv=0.35 in * 1,100 sf new roof area * 1 ft / 12 in = 32.1 cf recharge required (No net new impervious area is proposed.)

Static Volume provided = the volume of the recharge structure

Volume provided in rear drywell system = $(3.14 \times (2.66^{\circ}2) \times 1.25)(2) = 55.54$ cf below the outlets.

Volume provided in front drywell system = $3.14 \times (2.66^{\circ}2) \times 2.55 = 56.65$ cf below the outlet.

Total Storage Within Drywells = 123.29 cf of static storage

112.19 cf > 32.1 cf Recharge Requirement Met

The drywells have been designed to capture and handle, without exfiltration considered, approximately 1 inch of rainfall over the new rooftop.

No increase in impervious surfaces are proposed, therefore there can be no increase in runoff from the subject project.

The design of the basins have conservatively considered the 100 yr floodplain elevation at elevation 37 as the assumed max water table elevation for this design.

The profile for the drywell will include a base drywell elevation of 39 with a 3 foot drywell section set on 6" of stone, establishing the top of the drywell at elevation at 42.5 and the proposed rim at grade and 44.

Standard 4: Stormwater management system to remove 80% of the average annual load of Total Suspended Solids (TSS)

This project proposes to replace runoff from an impervious parking surface with clean roof runoff. Replacing the 'dirty' runoff filled with pollutants from the parking surface with clean rooftop runoff improves the quality of stormwater runoff going to Mill Brook. The existing pavement TSS removal is currently zero and is being replaced by rooftop runoff considered 100% clean. The new rooftop runoff will be collected and infiltrated in a drywell, further improving water quality and quantity to Mill Brook.

This standard is being met to the maximum extent practicable under redevelopment standards.



Standard 5: Land uses with higher potential pollutant loads

The development is not considered a land use that generally produces higher potential pollutant loads.

Standard 6: Stormwater discharges to critical areas

The proposed stormwater system does not discharge to a critical area.

Standard 7: Redevelopment projects

The project is considered a redevelopment project.

Standard 8: Control construction-related impacts

The project will install erosion and sediment controls prior to any earthwork activity. Erosion control barriers will be placed down slope from the proposed construction to prevent erosion and sedimentation into the surrounding areas.

Standard 9: Long-term operation and maintenance plan

See Appendix A for the operation and maintenance requirements of the stormwater management system.

Standard 10: No illicit discharges

An illicit discharge compliance statement has been provided by the property owner under separate cover.



Appendix A: Operation and Maintenance Plan

PROPOSED RENOVATION OF HIGHROCK COVENANT CHURCH

10, 12, 14-16 Mill Street, Arlington, MA

System Owner: Highrock Church



Dry well 1000 Gallon 6' Round

For the first 3 months after construction, the dry well should be inspected after every storm greater than 1" for standing water for periods in excess of 72 hours. Therein after, the dry well should be inspected biannually. If standing water is observed for longer than 72 hours, a pump should be placed in the dry well and discharged through the outlet pipe. After the dry well is dewatered, it should be observed by a Professional Engineer. A Professional Engineer should provide an opinion as to why the dry well is not draining and provide recommendations to restore infiltration capacity to the system.



		For Inspector	For Maintenance Crew	
Component No. Component Name	In	spection Item and Inspection Item No.	Result	Preventative / Corrective Maintenance Actions
	1	The cap of the inspection port is loose, damaged, or missing.	Y N	Fix, repair, or replace the cap Work Order #
A Dry Well	2	Standing water is present after the design drain time The observed drain time is approximately hours.	Y N	Recheck to determine if there is standing water after 72 hours If standing water is present longer than 5 days, report to mosquito commission. Remove any sediment buildup and replace the stone fill if necessary Check the perforated pipe for clogging and clean it if necessary Check the perforated pipe for damage and repair it if necessary Check subsoil permeability and replace subsoil if necessary Work Order #
	3	Excessive sediment or debris present in the inspection port	Y N	Clear and remove sediment or debris
Note:				

HOWARD STEIN HUDSON



		For Inspector	For Maintenance Crew	
Component No. Component Name	ln	spection Item and Inspection Item No.	Result	Preventative / Corrective Maintenance Actions
	4	Little or no flow into the dry well	Y N	Check whether the gutter, inlet pipe, downspout, or flow diverter is clogged Clear and remove debris
	5	Downspout or Overflow pipe is clogged	Y N	Clear the clog
A Dry Well	6	Odor present	Y N	Clear and remove sediment and debris Investigate the roof and gutters
	7	Overflow from the top of the dry well	Y N	Clear and remove sediment and debris Check the bypass pipe if any clog Remove any sediment buildup and replace the stone fill if necessary Check the perforated pipe for clogging and clean it if necessary Check the perforated pipe for damage and repair it if necessary Check subsoil permeability and replace subsoil if necessary
Note:				



Deep Sump Hooded Catchbasin

(Per DEP Stormwater Structural BMP's Vol 2)

Inspect or clean deep sump basins at least four times per year and at the end of the foliage and snow removal seasons. Sediments must also be removed four times per year or whenever the depth of deposits is greater than or equal to one half the depth from the bottom of the invert of the lowest pipe in the basin. If handling runoff from land uses with higher potential pollutant loads or discharging runoff near or to a critical area, more frequent cleaning may be necessary. Clamshell buckets are typically used to remove sediment in Massachusetts. However, vacuum trucks are preferable, because they remove more trapped sediment and supernatant than clamshells. Vacuuming is also a speedier process and is less likely to snap the cast iron hood within the deep sump catch basin.

Date	Inspector	Condition	Maintenance Performed*

^{*}Evidence of maintenance (ie. receipts) must be provided.



Trench Drain

Trench Drain inspections shall be performed at least two times per year and after any storm event resulting in greater than 1" of precipitation. The trench drain grate shall be kept clean of debris at all times. Any accumulated debris within the structure shall be removed as observed during regular inspections.

Date	Inspector	Condition	Maintenance Performed*

^{*}Evidence of maintenance (ie. receipts) must be provided.



SWG60 Synthetic Turf

(per Southwest Green)

See Appendix C for Southwest Greens Lawn Maintenance Manual. Use Chart below to document maintenance.

Date	Inspector	Condition	Maintenance Performed*

^{*}Evidence of maintenance (ie. receipts) must be provided.



Appendix B: Erosion and Sediment Control Notes and General Construction Sequence



Erosion and Sediment Control Notes

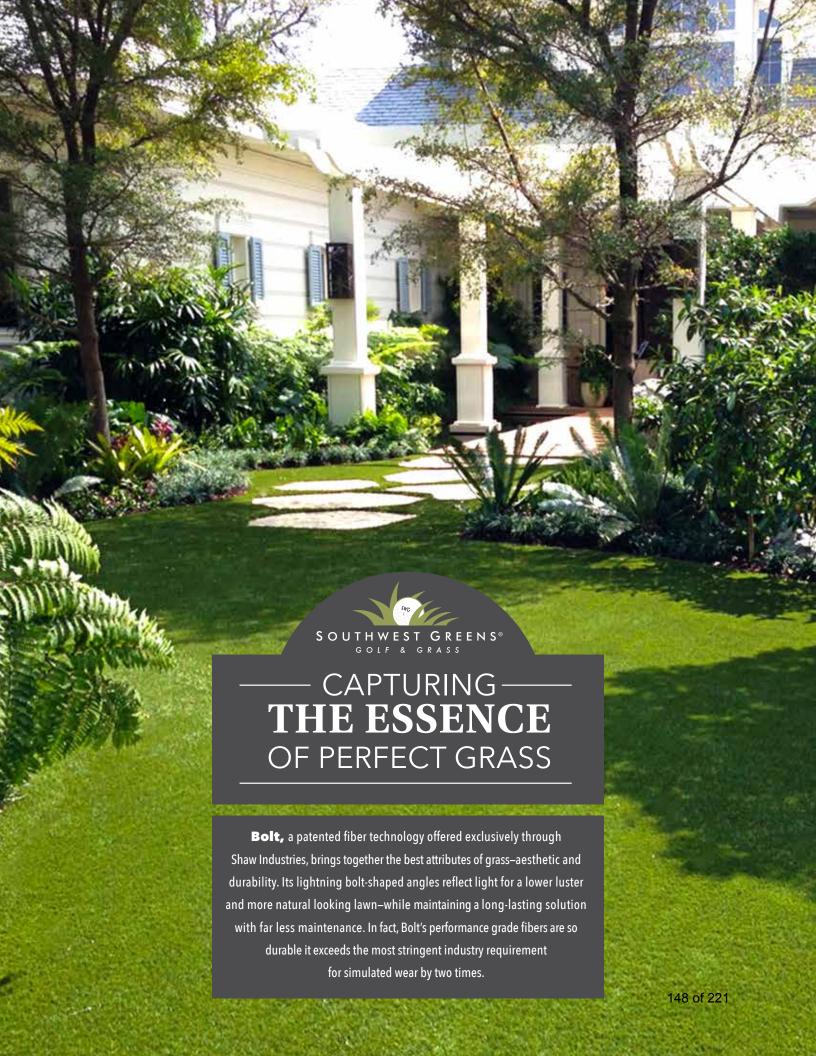
- 1. Erosion and sediment control measures must be installed prior to the start of construction and maintained and upgraded as necessary during construction by the contractor. It is the contractor's responsibility to inspect and install additional control measures as needed during construction.
- 2. All catch basins receiving drainage from the project site must be provided with a catch basin filter.
- 3. Stabilization of all re-graded and soil stockpile areas must be maintained during all phases of construction.
- 4. Sediment removed from erosion and sediment control devices must be properly removed and disposed. All damaged controls must be removed and replaced.
- 5. The contractor is responsible for implementing the erosion and sediment control plan. This includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of the plan, and notifying the proper city agency of any transfer of this responsibility.
- 6. The contractor shall be responsible for controlling wind erosion and dust throughout the life of his contract. Dust control may include, but is not limited to, sprinkling of water on exposed soils and street sweeping adjacent roadways.
- 7. If final grading is to be delayed for more than 21 days after land disturbance activities cease, temporary vegetation or mulch shall be used to stabilize soils within 14 days of the last disturbance.
- 8. If a disturbed area will be exposed for greater than one year, permanent grasses or other approved cover must be installed.
- 9. The contractor must keep on-site at all times additional silt fence and hay bales for the installation at the direction of the engineer or the city to mitigate any emergency condition.
- 10. The construction fencing and erosion and sediment controls as shown may not be practical during all stages of construction. Earthwork activity on-site must be done in a manner such that runoff is directed to a sediment control device or infiltrated to the ground.
- 11. Demolition and construction debris must be properly contained and disposed of.
- 12. Disposal of all demolished materials is the responsibility of the contractor and must be hauled off-site in accordance with all federal, state and local requirements.
- 13. During construction, every effort shall be made to minimize construction waste and debris.
- 14. Every effort shall be made to minimize air pollution, sedimentation, wind erosion, dust, and construction debris to maintain a healthy construction environment.

General Construction Sequence

- 1. Install erosion and sediment controls prior to starting any earthworks activity.
- 2. Install site/upgrade furnishings.
- 3. Install pavement and curbs.
- 4. Erosion and sediment controls shall be maintained until permanent cover is established.



Appendix C: Southwest Greens SWG60 Synthetic Turf Information











Southwest Greens is resetting the standard for high performance landscape turf and leads the industry by supplying commercial grade product for residential applications. While other companies sacrifice quality to retain bottom lines Southwest Greens has embraced the opposite approach through an extensive R & D process. When combined with the patented HydroChill™ evaporative cooling technology you can be assured that landscape projects have the optimum in aesthetics, durability and comfort.

Designed to meet the needs of high traffic in the commercial marketplace BoltTM is perfect for applications such as event spaces or lawns that require reliability. A full compliment of face weights and colorways allow aesthetics to meet the utmost in performance specifications.

BOLT ATTRIBUTES

SUPERIOR SPRING BACK



Best resistance to matting and is perfect for high traffic

LISPORT TESTING



Twice the wear resistance as the industry standard

RESINS



Highest performance resins provide superior market place quality

REFLECTIVITY



Unique turf fiber shape refracts light creating a low luster appearance



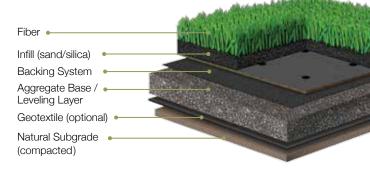








877.260.7888 www.southwestgreens.com



GB-042

BOLT 80



	Property	Imperial Unit	Metric Unit	Description
PRODUCT PROPERTIES	Fiber Type			100% Polyethylene
	Fiber Mass	10800 denier 4500 denier	1200 dtex 5000 dtex	6 Ply PE Bolt Mono 8 Ply TXT Thatch
	Finished Pile Height	2 in	50.8 mm	
	Color(s)		with	(301) Blend- (305) Fresh Green- Green-Brown Thatch
	Tufting Gauge	1/4 in		
	Primary Backing	7 oz/yd²	237 g/m ²	Stabilized Dual Layered Woven Polypropylene
	Secondary Backing	20 oz/yd ²	678 g/m ²	Urethane
PERFORMANCE PROPERTIES	Tufted Face Weight	80 oz/yd²	2713 g/m ²	ATSM D418
	Total Weight	107 oz/yd ²	3627 g/m ²	ATSM D418
PACKAGING	Item Number			GB-042
	Roll Width	15 ft	4.57 m	
·	<u> </u>			·

15 YEAR WARRANTY

Southwest Greens International warrants to the original purchaser of the turf that for fifteent (15) years from the date of synthetic turf installation, the turf, when installed and maintained as recommended by the yarn and turf manufacturer, will retain at least 50% of its pile fiber. If any area or portion of the turf substantially changes, as distinguished from a change in texture, or if pile heights decrease 50% or more within ten years after its initial installation, Southwest Greens International will have all such areas or portions replaced with new turf of equivalent quality, excluding installation costs. Southwest Greens International also warrants that at the time of the initial turf installation, the synthetic turf will be free of manufacturing defects. Slight color changes will occur over the lifetime of this turf/carpet and is not considered an issue or basis for claim. All labor cost involved with the removal of the affected turf/ carpet and reinstallation of the replacement will be the responsibility of the purchaser.

*For full terms, please see the 15 year warranty agreement.

- * Tufted pile height as standard. Pile height will draw down slightly during secondary backing process.
- ** Tufting gauge and stitch rate as manufactured standard. Values will change slightly during secondary backing process.
- **** Standard roll lengths. Roll lengths may vary. Custom roll lengths and cuts are available upon request.
- **** All specifications subject to manufacturing tolerances of +/-5%.



SUSTAINABILITY

Environmental benefits of turf:

- Saves water. One square foot of artificial turf saves 55 gallons per year.*
- Eliminates the need for pesticides and fertilizers used for natural grasses.
- Reduces air pollution created by gas-powered lawn equipment.
- LEED Certification. Contributes toward U.S.
 Green Building Council with LEED credits.

^{*}Southern Nevada Water Authority estimate



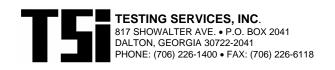
Shaw Industries and Southwest Greens, **Committed to a green future.**

Shaw continues its 20-year commitment to The **Cradle to Cradle Certified™** Products Program with almost 90% of the products Shaw makes being certified.

Shaw's commitment to material health means Shaw turf products can be safely recycled at end of life. Shaw's NXTPlay turf pad product is Cradle to Cradle Certified Bronze and contains up to 50% recycled content from old turf field products.



Cradle to Cradle Certified™ is a registered trademark of the Cradle to Cradle Products Innovation Institute.





TEST REPORT

CLIENT:	Shaw Sports Turf- Southwest Greens Int'l	REPORT NUMBER:	63832E
	185 South Industrial Blvd.	LAB TEST NUMBER:	2707-3388
	Calhoun, GA 30701	DATE:	May 28, 2015
		PAGE:	1 of 1

Test Material:

T. 610
Turf ID
SWG 80 Bolt

TEST METHOD: EPA Method 3052: Microwave Assisted Acid Digestion of Siliceous and Organically

Based Matrices

Toxic Characteristic Leaching Procedure (TCLP) by Method 6010

TEST SCOPE: Testing Services Inc was instructed by the client to determine the leaching properties for EPA toxic

metals from submitted material.

TEST PROCEDURE: Method 3052 is a microwave assisted acid digestion that is a total decomposition analysis. A

representative sample of the test material is digested in concentrated nitric acid and usually hydrofluoric acid for 15 minutes using microwave heating. The test sample and acid are placed into a polymeric microwave vessel, which is sealed and heated in the microwave system. The temperature profile is set to obtain specific reactions but be able to reach 180°C in less than 5.5 minutes and remain at this temperature for 9.5 minutes for total decomposition. After cooling, the vessel contents are then extracted by EPA Method 3051 Microwave Digestion. An extraction was performed after 18 hours on the fluid to

determine toxins that may have leached from the material.

TEST RESULTS:

TCLP Metals	Test Method	Re	sult	Minimum De	etection Limit
Arsenic (As)	6010	<0.5	mg/L (ppm)	0.5	mg/L (ppm)
Barium (Ba)	6010	<5	mg/L (ppm)	5	mg/L (ppm)
Cadmium (Cd)	6010	<0.1	mg/L (ppm)	0.1	mg/L (ppm)
Chromium (Cr)	6010	<0.5	mg/L (ppm)	0.5	mg/L (ppm)
Lead (Pb)	6010	<0.5	mg/L (ppm)	0.5	mg/L (ppm)
Selenium (Se)	6010	<0.1	mg/L (ppm)	0.1	mg/L (ppm)
Silver (Ag)	6010	<0.5	mg/L (ppm)	0.5	mg/L (ppm)
Mercury (Hg)	7470B	< 0.002	mg/L (ppm)	0.002	mg/L (ppm)

Note: Under NVLAP guidelines, TSi is to report any outsourcing of testing to another laboratory facility. In the above testing, some/all of tests were outsourced to: Analytical Industrial Research Laboratories. Their accreditations are on file and available upon request.

Erle Miles, Jr V.P., Testing Services Inc

TSi Accreditation: Our laboratory is accredited with US Dept of Commerce, National Institute of Standards and

Technology: ISO/IEC 17025:2005. Our code # is NVLAP 100108-0. However, it should be noted that some or all of the tests performed are not under our scope of accreditation due to the work not

fully conforming to the standard, or it being outside the scope of our accreditation, or

subcontracted.

Uncertainty: We undertake all assignments for our clients on a best effort basis. Our findings and judgments are

based on the information to us using the latest test methods available.





CLIENT:	Shaw Sportexe R&D	REPORT NUMBER:	53974
	Shaw Floors; Shaw/Sportexe	LAB TEST NUMBER:	2406-1062
	Dalton, GA 30721	DATE:	January 16, 2012

TEST MATERIAL:

Turf ID	Backing	Infill
SWG 80	Polyurethane	8.5 lbs/ft ² Sand

<u>INTRODUCTION:</u> Testing Services Inc was instructed by the client to determine infiltration rate of the above

described turf with infill.

SCOPE OF TEST: The test conducted determines the rate at which water enters the turf surface under defined

constant head conditions and reflects the permeability of the surface tested.

<u>TEST METHOD(S):</u> British Standard 7044 Method 4: Determination of Infiltration Rate-Buffered Ponding-

Type Infiltrometer

PROCEDURE: A 3' X 3' sample of the submitted system was mounted on top of a steel grate, which allowed

for free flow of water during the test. Two rings, one inner and one outer, were placed on top of the turf system. Water flowed separately into both ring areas-the outer ring creating a ponding effect by maintaining a head of water surrounding the inner ring. The infiltration rate is calculated by measuring the flow of water; by means of a water flow gauge (gallons), as it entered the inner ring in cubic centimeters during the 20-minute test. The temperature of the water in the inner ring was also recorded and normalized, compensating for the relative

viscosity of water, to 10°C or 50°F.

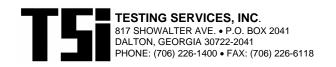
<u>Test Data:</u> Test was conducted at TSi Laboratories on January 16, 2012

Time of Test	20 Minutes
Gallons Used	43.1
Water Temperature	52.0°F
Viscosity Factor	1.27
Ring Diameter	17.0"

Test Result:

Normalized Inches/Hour	Normalized Centimeters/Hour
128	325

Approved By:		
Erle Miles Jr, VP		
Testing Services Inc		





Test Report

CLIENT:	Shaw Sports Turf- Southwest Greens Int'l	REPORT NUMBER:	63832C
	185 South Industrial Blvd.	LAB TEST NUMBER:	2707-3388
	Calhoun, GA 30701	DATE:	May 28, 2015
		PAGE:	1 of 1

Test Material:

Turf ID	Infill
SWG 80 Bolt	3.0 lb/ft ² 20/40 Silica Sand

<u>Test Scope:</u> This test method determines the rate at which water enters the test material under defined constant

head pressure conditions and reflects the permeability of the turf with infill system. Lab testing does

not take into account the percolation properties of an underlying sub base.

<u>Test Method:</u> British Standard 7044 Method 4: Determination of Infiltration Rate-Buffered Ponding Double

Ring Infiltrometer

Test Procedure: A 42" X 42" infilled turf sample was mounted on top of a steel grate, which allowed for free

flow of water during the test. Two rings, one inner and one outer, were placed on top of the drain product. Water flowed separately into both ring areas-the outer ring creating a ponding effect by maintaining a head of water surrounding the inner ring. The infiltration rate is calculated by measuring the flow of water; by means of a water flow gauge (gallons), as it entered the inner ring in cubic centimeters during the 20-minute test. The

temperature of the water in the inner ring was also recorded and normalized,

compensating for the relative viscosity of water, to 10°C or 50°F.

Test Data:

Date of Test	May 5, 2015
Time of Test	20 Minutes
Gallons Used	84.8
Water Temperature	21°C / 70°F
Viscosity Factor	0.98
Ring Diameter	17.0"

Normalized Inches/Hour	Normalized Centimeters/Hour
194	493

Approved By:

Erle Miles, Jr V.P., Testing Services Inc

TSi Accreditation: Our laboratory is accredited with US Dept of Commerce, National Institute of Standards and

Technology: ISO/IEC 17025:2005. TSi is a recognized certified laboratory by the Synthetic Turf Council

Uncertainty: We undertake all assignments for our clients on a best effort basis. Our findings and judgments are

based on the information to us using the latest test methods available.



Lawn Maintenance Manual





Congratulations on the purchase of your new Southwest Greens synthetic lawn system.

Your new lawn will require minimal maintenance to keep it looking at optimal level,

however we do recommend the following to ensure the longevity of your surface.

INTRODUCTION TO MAINTENANCE	1
PROTECTING YOUR LAWN	2
CLEANING, GROOMING AND STAIN REMOVAL	3
SNOW & ICE MANAGEMENT	5
WATERING YOUR LAWN	5
MINOR REPAIRS	5
OTHER REPAIRS	6
KEY POINTS TO REMEMBER	6

INTRODUCTION TO MAINTENANCE

Following these simple suggestions will significantly extend the life and performance of your product:

- Keep it clean
- Do not abuse it. No vehicle traffic, no heavy static loads, or fireworks, etc.
- Make all minor repairs to your surface promptly
- Consult with a Southwest Greens professional if your repairs and renovations are complicated
- Maintain proper infill levels in high use areas

NOTE: This manual is intended for customer use. It is important that the people who are responsible for maintenance are thoroughly familiar with its contents and refer to it regularly. The contents in this manual represent the most current information regarding suggested procedures for the proper use and care of your Southwest Greens turf system. All information has been presented in good faith and is believed to be accurate.

Southwest Greens makes no representations, warranties or guarantees of any kind, expressed or implied, regarding the information contained herein and disclaims all liability or any loss or damage arising out of its use.

PROTECTING YOUR LAWN

It is good business to protect your investment and take care of your synthetic lawn. To do this most effectively, KEEP IT CLEAN. The following maintenance precautions are advised:

- Keep your surface free of litter, mud and debris
- Prohibit smoking and food or drink on the surface
- Repair minor damage promptly
- Follow suggested maintenance and cleaning procedures

CLEANING AND STAIN REMOVAL

Rain is the best cleanser. Rainfall gently cleans the fibers of dust, pollen and airborne pollutants in a way that is difficult to duplicate. In areas where rainfall is scarce – or during prolonged periods of drought – an occasional watering is beneficial to cleanse the synthetic surface.

DAILY CARE

Daily care is on-going care; it does not necessarily mean care each and every day. The amount and frequency of daily care is dependant on not only the surface, but also by the volume and the type of use. Southwest Greens recommends that every lawn should periodically be blown off to remove litter and dust, etc.

LITTER REMOVAL

Light trash and airborne dust can be removed easily by hand.

FREQUENCY

The removal of loose rubbish and surface dust should be performed on an as needed basis, generally about once a week depending on usage.

DO'S

It is good business to protect the investment of your synthetic lawn. To do this most effectively, keep it clean. Your Southwest Greens synthetic lawn is designed to resist both wear and exposure to the elements. The effectiveness of their materials, design and construction is demonstrated by the long life under heavy use in many climates. The following are the most obvious precautions:

- Keep the synthetic lawn and close adjacent areas clean and free of litter, mud and debris.
- Prohibit smoking and carrying food or drink onto the synthetic lawn.
- Repair minor damage promptly.
- Follow suggested maintenance and cleaning procedures.
- Contact your Southwest Greens representative for assistance with repairs, renovation work, or any further technical details.

DON'TS

DO NOT ABUSE the synthetic lawn with:

- Vehicle traffic
- Heavy static loads
- Fireworks
- Storage of materials such as drums, lumber, equipment, etc.
- Open flames, welding, etc.
- Use of wire brushes in any form
- Use of cleaning equipment, materials, and methods not authorized by Southwest Greens
- High-pressure water sprays exceeding 500 PSI
- Vehicles with non-pneumatic tires
- Introduction of infills or impregnated layers other than supplied or authorized by Southwest Greens.
- Do not allow the use of bikes, skateboards, lawn mowers, etc.
- Do not allow any unauthorized use
- Improper storage of a Southwest Greens removable synthetic lawn

GROOMING OF INFILLED TURF

Southwest Greens recommends that every Southwest Greens synthetic lawn has routine brushing every 80 to 120 hours of usage. Routine brushing is accomplished with a Harper broom suitable for brushing the surface. If you do not have a commercial turf brush please contact your Southwest Greens representative to purchase one. Infilled surfaces do require grooming as additional grooming may be necessary only when and if the infill has become displaced due to excessive use in certain areas of the surface.

WEEDS & INSECTS

You may notice from time to time weeds growing around the fringe area of your syntheitc lawn. You may use any non-colored weed killer, which can be sprayed directly on the turf to control growth. To avoid ants and insects apply pellets on the affected area and activate as recommended on the label. You can also use any non-colored pest control agent.

ROUTINE BRUSHING

Routine brushing keeps the surface free from debris, but also keeps your Southwest Greens lawn at its optimum performance. Routine brushing simultaneously achieves three objectives:

- 1. Keeps infill layer uniform in its distribution
- 2. Ensures that the exposed part of the fiber is uniform in its direction and stays erect
- 3. Helps remove litter, leaves, dirt, etc.

The realized benefits from routine brushing are:

- 2. Maximum aesthetic appeal
- 3. Lengthened life expectancy

STAIN REMOVAL

GENERAL INSTRUCTIONS

Southwest Greens fibers are among the most stain resistant in the industry. Most stains are not "true" stains but rather residue of foreign matter that must be promptly and thoroughly removed.

The first rule in spot removal is promptness. It is always easier to clean up a fresh spill than one that has dried and hardened. Remove any solid or paste-like deposit with a spatula or table knife. Blot up excess liquids with a thick stack of paper towels or a dry absorbent such as "kitty litter" or Fullers Earth. Dry absorbents can then be swept or vacuumed up. Southwest Greens surfaces provide good resistance to staining. However, it is important to realize they are only one part of a sophisticated system of various components and some cleaning agents that are safe for the fiber can be harmful to other components of the system.

NYLON FIBERS

Cleaning agents are grouped into two sets, one of which can be used in liberal amounts directly on the turf surface, and the second of which should only be applied by rubbing a cloth soaked in the cleaner, in order to minimize penetration of possibly harmful agents below the turf fibers.

In the first group of cleaners, which generally can be applied to non-infilled systems without any special precautions, are the following:

- A warm, mild solution of granular household detergent such as Tide or ALL in water, or any neutral low sudsing detergent that is recommended for fine fabrics. Use approximately one teaspoon of detergent to one pint of water. This will handle most stains.
- 2. Use three percent solution of ammonia in water for more severe cleaning problems. (NOTE: household ammonia is three percent. Industrial aqua ammonia is 33 percent. Dilute nine parts water to one part industrial ammonia, or the available supply as appropriate.) Thoroughly flush the surface, rinse with plenty of cold water afterwards
- Clean, dry absorbents such as paper towels or commercial "kitty litter" can be used for applicable stains.

In the second group of cleaners, where agents must be applied sparingly, care must be taken to avoid penetration beneath the turf fibers. We recommend consulting a professional for application instructions.

POLYPROPYLENE & POLYETHYLENE FIBERS

Polypropylene & polyethylene fibers are among the most stain resistant fibers known to man. Hence, most "stains" on Southwest Greens polypropylene and polyethylene fields are not true stains but rather residues of foreign matter which must be promptly and thoroughly removed. (This is not the case with nylon and other fibers on the market.)

Most "stains" on polypropylene or polyethylene fields can be removed with water or soap and water. The first rule is promptness. It is much easier to clean up a fresh oil spill before it has time to dry and harden. Remove any solid or paste-like deposit promptly using a dull knife or spatula-like tool. Blot up excess liquids with a stack of towels, cloth or paper. Dry absorbent clay based materials, such as cat litter absorbers ("kitty litter") can be very useful and should be stored on site. Such dry absorbers can be swept or vacuumed up.

Cleaning agents are grouped into two sets, one of which can be used in liberal amounts directly on the turf surface, and the second of which should only be applied by rubbing a cloth soaked in the cleaner, in order to minimize penetration of possibly harmful agents below the turf fibers.

The first group of cleaners can generally be applied to infilled systems without any special precautions.

"WATER BORNE" RESIDUES

Most "stains" commonly associated with polypropylene and polyethylene playing fields can be classified as "water borne" stains. These stains are best removed using a warm mild solution of granular household detergent (non-abrasive) and water.

Typical Water Borne Residues

Acid, Alcohol, Alkali, Beer, Blood, Butter, Chocolate, Coffee, Cola, Dye, Food Coloring, Fruit Juice, Gatorade, Glue, Ice Cream, Ketchup, Latex Paint, Milk, Mustard, Tea, Timerosal, Urine, Water Colors.

- 1. Brush the residue with a stiff brush
- 2. Scrub the area with soap and water
- 3. Rinse the area thoroughly with clear water to remove all traces of soap
- 4. Dry with absorbent towel(s), if necessary

A three percent solution of ammonia in water may be used in lieu of household detergent for more stubborn residues or stains.

NON "WATER BORNE" RESIDUES

In the second group of cleaners, where agents must be applied sparingly, care must be taken to avoid penetration into the turf fibers. We recommend consulting a professional for application instructions.

Typical Non Water Borne Stains

Asphalt, Ball-point, Chewing Gum, Cooking Oil, Crayon, Floor Wax, Grease, Lipstick, Motor Oil, Paraffin Wax, Rubber Cleat Marks, Shoe Polish, Suntan Oil.

SNOW AND ICE MANAGEMENT

Snow and ice are not harmful to Southwest Greens synthetic lawns and can generally be left to melt and run off on their own accord. Sometimes, however, it becomes essential to clear away snow and ice to permit scheduled use of the surface. When this happens, the working principle for snow is to leave it in place until as near to time of use as possible. Doing so will minimize the risk of ice build up from cold wind blowing across a damp snow-cleared surface. Ice removal is more difficult, especially if a heavy layer has built up following freezing rains.

WATERING YOUR LAWN

Some owners have found it desirable to deliberately wet their lawn, especially in periods of very hot weather. Wetting the surface provides moisture for cooling the surface before evaporation takes place. It also acts as a lubricant to the turf but it must be noted it may also lower traction to a slight degree. On a hot sunny day outdoor playing surfaces can receive enough radiant energy to evaporate about a quart of water per square yard per hour. As the moisture evaporates the temperature of the synthetic turf will match that of natural grass in the same area. If you decide to water your lawn, be careful to distribute the water evenly. If water is put on the surface, it should not be from a polluted supply. Also be aware, when a lawn is watered on an extremely hot day, you risk dangerously raising the heat index level which can be harmful.

MINOR REPAIRS TO SOUTHWEST GREENS SURFACES

Your lawn has been carefully engineered to provide many years of service. In the case of vandalism or unusual abuse, limit to performing minor repair. For more serious problems, consult your Southwest Greens representative.

WHEN TO REPAIR

To properly maintain your lawn, be aware of day-to-day activities, usage and condition of the facility. It is very important that any minor damage be repaired immediately because a small problem may eventually grow into a major repair. In addition to routine awareness of conditions, once or twice a year, your surface should be given a careful and thorough inspection, preferably in the spring with a follow-up in early fall. All seams should be inspected and any loose areas noted and repaired. Go over the body of each panel of fabric and note any rips and/or tears. Assess the status of the under-padding and the condition of the surface. In the case of an older and/or heavily used surface, inspections should be made more frequently.

WHAT ARE "MINOR REPAIRS?"

An open spot in a sewn or glued seam, where the loose area in the seam extends from a few inches to one or two feet (along a glued seam line where at least one of the turf edges is still attached to the seam tape).

Cuts, rips or tears in the surface fabric that are less than six inches or so in length do not generally require a special trip by our service staff and can be repaired by the owner without much effort. These can also be regarded as minor unless allowed to become larger. All of these problems can be handled by sewing or adhering the repairs. To repair minor seam openings or loose seam areas:

- 1. For infilled systems vacuum sand or rubber from the turf to be repaired.
- 2. Be sure that the fabrics to be adhered are dry, free from loose sand, dirt, old adhesive and other foreign matter.
- 3. Remove the area of debris.
- Position the fabric to check for satisfactory final placement.
- 5. Be sure the seaming tape to which the fabric will be adhered is itself adhered to the underlying pad (If system uses an underlying pad).
- 6. Apply a small amount of caulk onto seaming tape. Avoid excessive adhesive to reduce the possibility of bleed through or bleed out. Spread the adhesive with a trowel and trowel so that the entire fabric is coated lightly and evenly.
- 7. Press the fabric into the adhesive bed uniformly.
- 8. Weigh down the area and allow to cure for a minimum of 2 hours.
- For in-filled systems, spread appropriate rubber or sand on the repaired area and brush into the turf thoroughly until even with surrounding playing areas.

SMOKING SHOULD BE STRICTLY PROHIBITED IN THIS AREA!

OTHER REPAIRS

CIGARETTE / FIREWORK BURNS

Use a hand held metal brush (such as is used to remove paint) and brush the spot vigorously to separate the fibers. If brushing the turf does not remove the damage, take a razor knife and cut the fused area away.

PROHIBITED ACTIVITIES ON A SYNTHETIC LAWN:

- Storage of materials such as drums, lumber, equipment, etc
- Unnecessary vehicle traffic
- Open flame, fireworks, welding, etc.
- Use of wire brushes in any form
- Use of cleaning equipment, methods or materials not authorized
- High-pressure water sprays exceeding 1000 psi
- Vehicles with non-pneumatic tires
- Introduction of infills that varies from Southwest Greens specifications

KEY POINTS TO REMEMBER

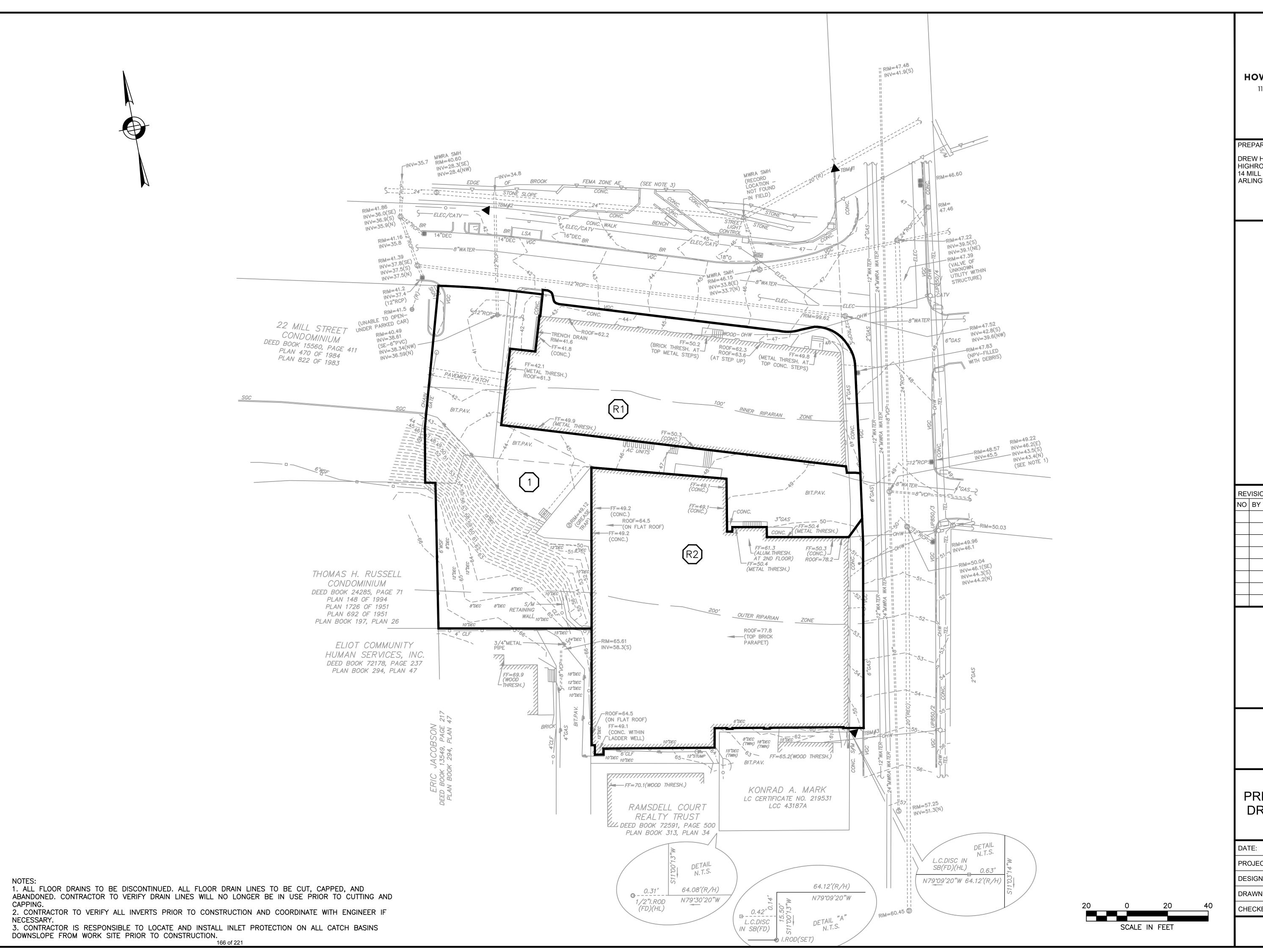
- Keep the lawn clean.
- Cross-brush the turf surface as often as required.
- No smoking around the lawn. Surfaces do not burn readily, but will scorch as a result of cigarettes and burning matches.
- Do not park vehicles or equipment on the field for hours or overnight.
- Do not abuse the surface by overloading it. Place plywood on surface to protect and to displace weight of heavy loads over a larger area.
- Call for help or advice when you have questions about your synthetic lawn and its use. Your representative can assist with your questions and inquiries and we are always eager to help you experience your field to its fullest potential.
- Following the exact recommendations and procedures shown in this manual will assure that your Southwest Greens lawn will give you years of good service with minimal maintenance.



Shaw, A Berkshire Hathaway Company www.southwestgreens.com



Appendix D: Drainage Exhibits



4:7

HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C Chelmsford, MA 01824 www.hshassoc.com

PREPARED FOR:

DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

3CH

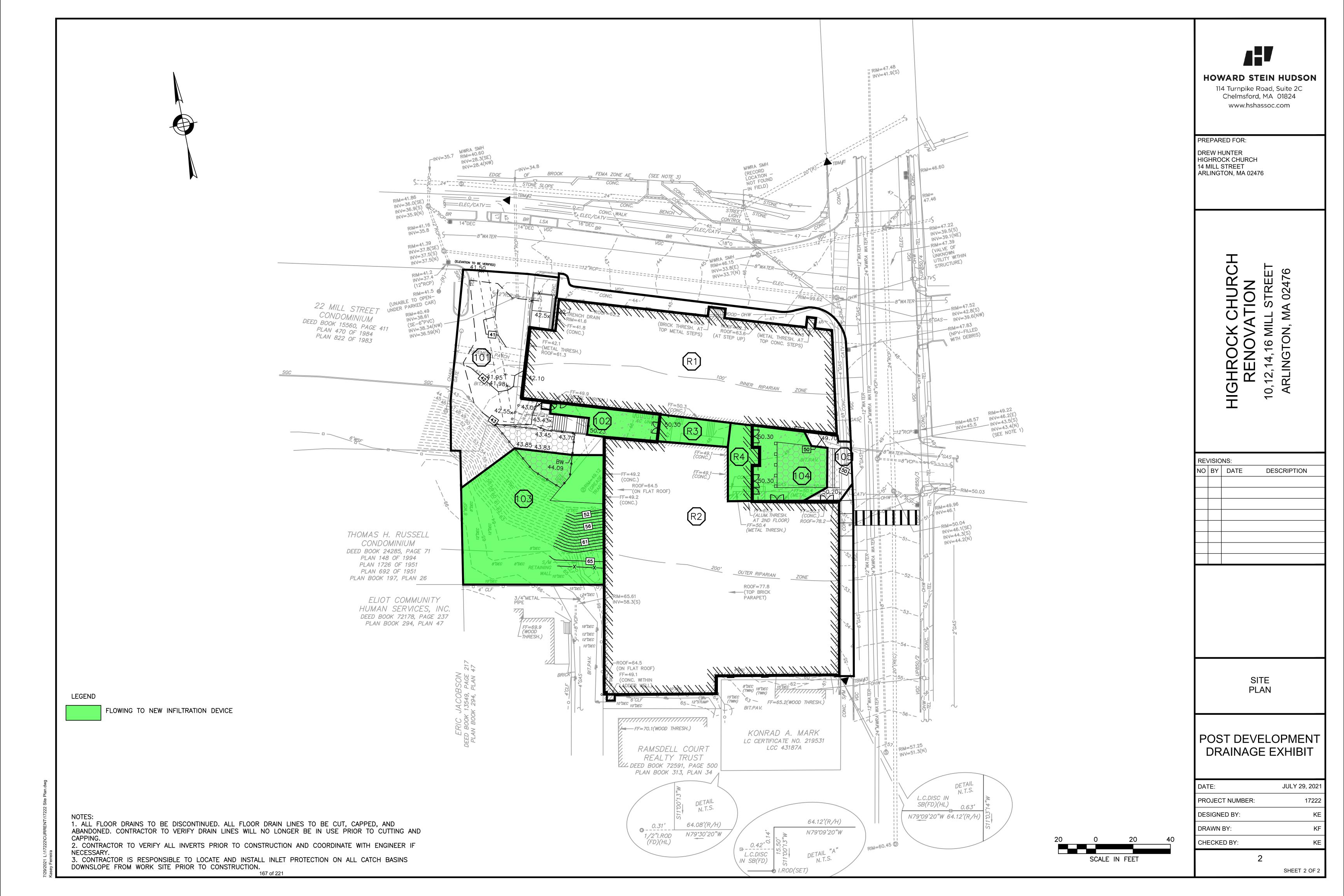
HIGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET ARLINGTON, MA 02476

RE\	REVISIONS:				
Ю	BY	DATE	DESCRIPTION		

SITE PLAN

PRE DEVELOPMENT DRAINAGE EXHIBIT

DATE:	JULY 29, 2021
PROJECT NUMBER:	17222
DESIGNED BY:	KE
DRAWN BY:	KF
CHECKED BY:	KE
1	
	SHEET 1 OF 2





TO: Emily Sullivan DATE: 2021-07-29

FROM: Howard Stein Hudson HSH PROJECT NO.: 17222

SUBJECT: Tree Verification - 10-16 Mill Street Arlington, MA

Dear Emily,

In response to a recent inquiry by the Arlington Conservation commission, Howard Stein Hudson, under guidance of the project team's RLA, has performed a site visit on Monday July 26, 2021 to 10-16 Mill Street, known as Highrock Covenant Church, to verify the species of trees proposed to be removed from the site.

After some site investigation, including examining the surroundings, branches, sap, and leaves of the trees, the project team is able to conclude that the trees in question are in fact Norway Maple trees.

Please see the attached photographs pertaining to the trees in question.

Please do not hesitate to contact Howard Stein Hudson's Chelmsford office with any further questions or concerns.

Sincerely,

Howard Stein Hudson

Kasey Ferreira, E.I.T.

Civil Engineer

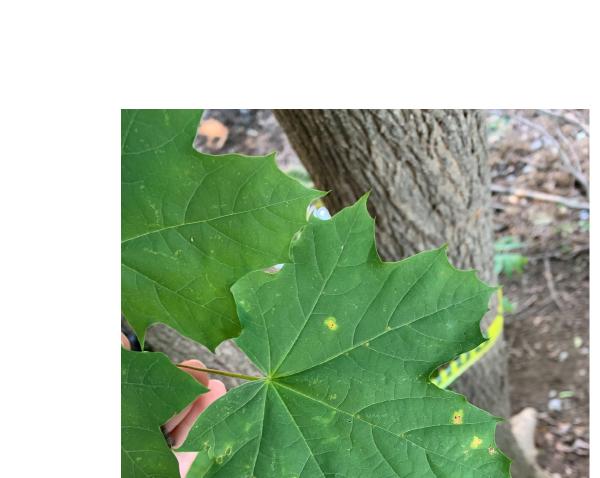


Figure 1 Leaf of Norway Maple Tree.



Figure 2 Trunk and Bark of Norway Maple tree.





 $Figure\ 3\ Trunk\ Base\ and\ slope\ surrounding\ Norway\ Maples.$

SITE PLAN FOR PROPOSED RENOVATION 10, 12, 14, 16 MILL STREET ARLINGTON, MA. FOR HIGHROCK COVENANT CHURCH

GENERAL NOTES:

- SURVEY CONDUCTED BY HANCOCK ASSOCIATES REVISED THROUGH 12–15–2020.

 2. THE ACCURACY AND COMPLETENESS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED
- TO CONTACT DIGSAFE AT 1-888-344-7233.

 3. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION

 AND REPORT ANY DISCREPANCIES TO THE ENGINEER
- 4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE APPROPRIATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
- 5. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAVING.
- 6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED, REMOVED AND DISPOSED.
- 7. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.

SHEET INDEX

SHEET 1 TITLE SHEET

SHEET 2 LAYOUT AND MATERIALS PLAN

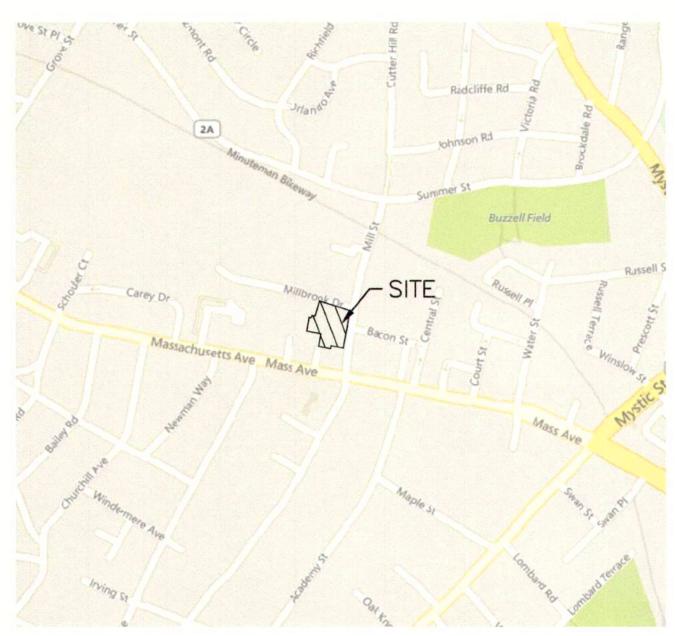
SHEET 3 GRADING, DRAINAGE AND UTILITY SHEET

SHEET 4 DETAIL SHEET 1 OF 4
SHEET 5 DETAIL SHEET 2 OF 4
SHEET 6 DETAIL SHEET 3 OF 4

DETAIL SHEET 4 OF 4

EXISTING CONDITIONS PLAN

SHEET 7



LOCUS MAP 1"=500'

PROJECT TEAM:

APPLICANT
HIGHROCK CHURCH, INC.
14 MILL STREET
ARLINGTON, MA 02474

CIVIL ENGINEER
HOWARD STEIN HUDSON
114 TURNPIKE ROAD
SUITE 2C
CHELMSFORD, MA

SURVEYOR
HANCOCK ASSOCIATES
34 CHELMSFORD STREET
SUITE 2
CHELMSFORD, MA 01824

ARCHITECT
MAUGEL ARCHITECTS, INC.
200 AYER ROAD
SUITE 200
HARVARD, MA 02451

OWNER

HIGHROCK CHURCH INC.

14 MILL STREET

ARLINGTON, MA 02474

ASSESSORS INFORMATION

ASSESSORS MAP 52 BLOCK 1 LOT 12
ASSESSORS MAP 52 BLOCK 1 LOT 18
ASSESSORS MAP 52 BLOCK 1 LOT 19
ASSESSORS MAP 52 BLOCK 1 LOT 20.D

REFERENCES

1. EXISTING CONDITIONS SURVEY ENTITLED "EXISTING CONDITIONS PLAN OF LAND IN ARLINGTO MASSACHUSETTS" DATED DECEMBER 11, 2013 AND REVISED THROUGH JANUARY 20, 2014.

ZONING REQUIREMENTS

I - INDUSTRIAL DISTRICT

DIMENSIONAL REQUIREMENTS

	REQUIREMENT	EXISTING*	APPROVED*	PROPOSED*
MINIMUM LOT AREA	_	_	_	_
MINIMUM LOT FRONTAGE	_	_	_	_
MINIMUM FRONT YARD	10 FT	0.5 FT±**	0.5 FT±**	0.5 FT±**
MINIMUM SIDE YARD	10 FT	0 FT±**	0 FT±**	0 FT±**
MINIMUM REAR YARD	10 FT	N/A	N/A	N/A
MAXIMUM STORIES	4	2	2	2
MAXIMUM BUILDING HEIGHT	52 FT	_	_	_
MAYIMIM FLOOD AREA RATIO	1.50	1 30+	1 38+	1 35+

* DIMENSIONS FOUND BY COMBINING ASSESSORS MAP 52 BLOCK 1 LOTS 12, 18, 19 AND 20.D TO PROPERLY COMPARE BETWEEN EXISTING AND PROPOSED CONDITIONS.

** EXISTING NON-CONFORMING DIMENSION

PARKING REQUIREMENTS

THEATER, RESTAURANT, GYMNASIUM, AUDITORIUM OR SIMILAR PLACE OF PUBLIC ASSEMBLY WITH SEATING FACILITIES.

500 SEATS X 1 PARKING SPACE/4 SEATS = 125 PARKING SPACES

OFFICE USE INCLUDING PROFESSIONAL, BUSINESS, OR MEDICAL AND DENTAL 1 SPACE PER 500 SF \times 4,652 SF = 10 SPACES

TOTAL SPACES REQUIRED: 135 SPACES

EXISTING SPACES

PARKING AGREEMENT: 25 SPACES
ON STREET PARKING: 7 SPACES
TOTAL EXISTING PARKING: 32 SPACES

HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C Chelmsford, MA 01824 www.hshassoc.com

PREPARED FOR

DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

> IIGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET

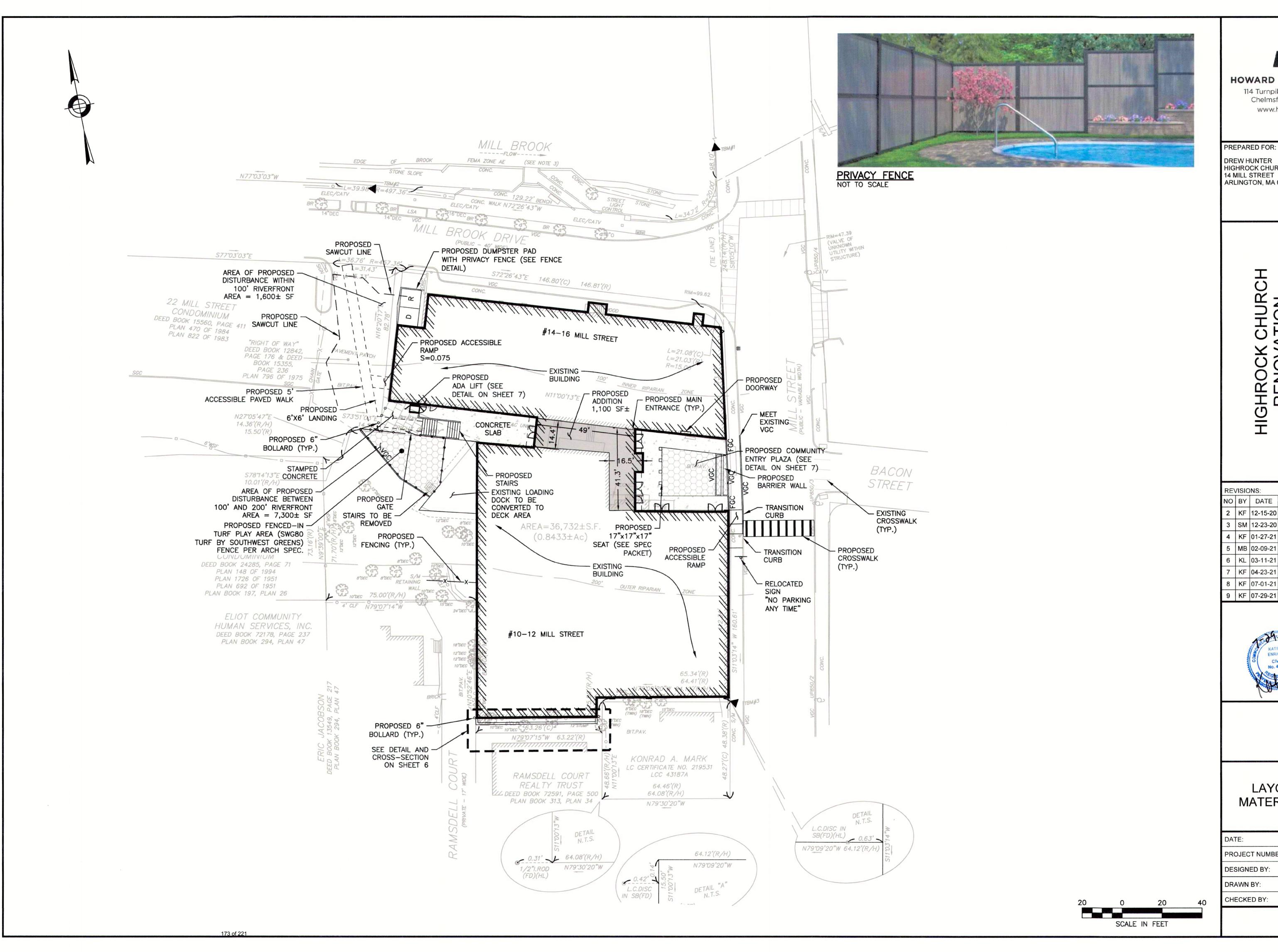
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NO	BY	DATE	DESCRIPTION
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3	SM	12-23-20	PER ARCH. COMMENTS
4	KF	01-27-21	PER ARCH. COMMENTS
5	МВ	02-09-21	DRIVEWAY DETAIL
6	KL	03-11-21	PER CLIENT COMMENTS
7	KF	04-23-21	ADD DECK TO REAR
8	KF	07-01-21	OOC AMENDMENT
9	KF	07-29-21	OOC AMENDMENT



SITE PLAN

COVER SHEET

E:	OCTOBER 16, 2018	
JECT NUMBER:	17222	
IGNED BY:	KE	
WN BY:	KF/PS	
CKED BY:	KE	
1		
	SHEET 1 OF 7	





HOWARD STEIN HUDSON

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DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

CHURCH

REVISIONS:				
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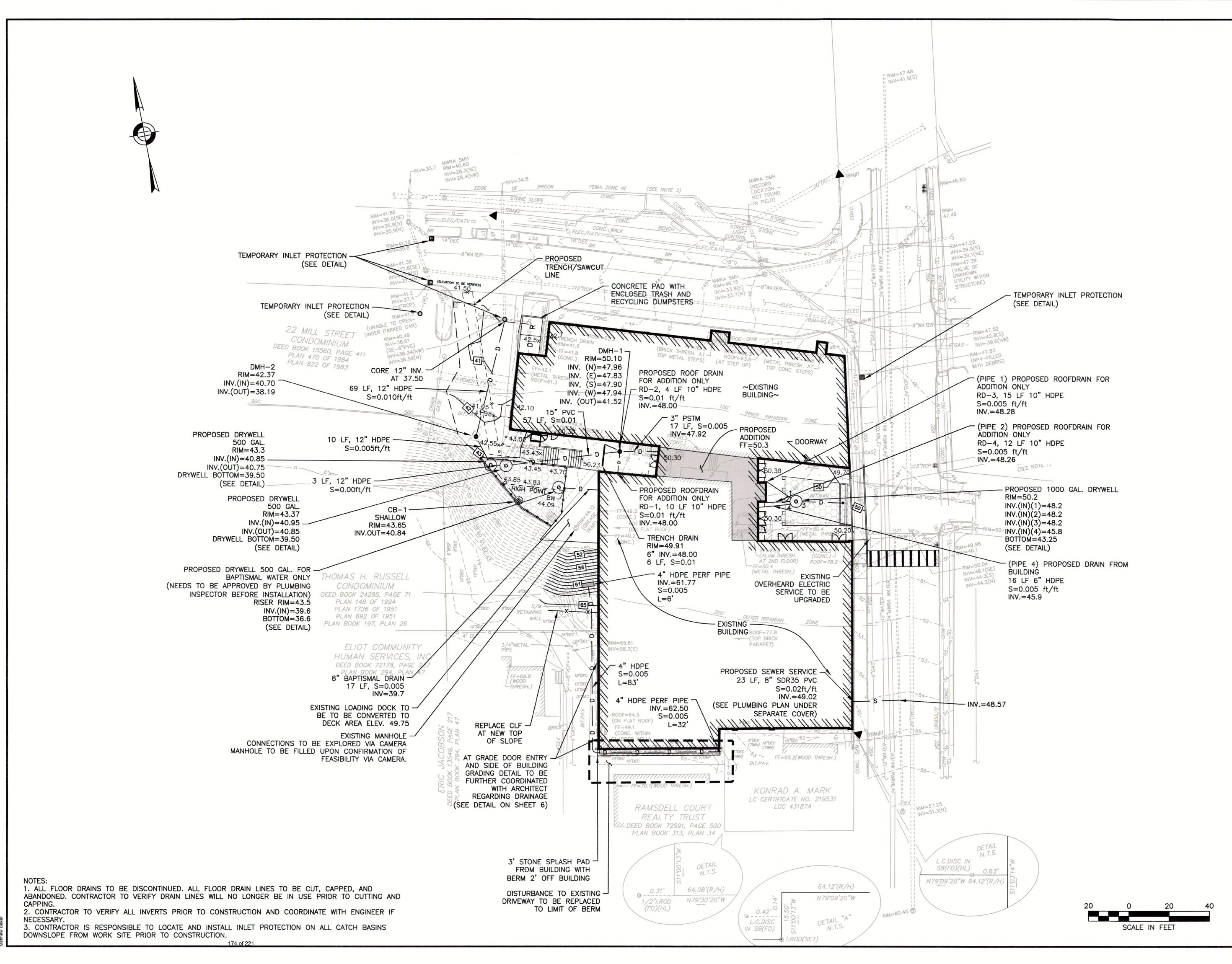
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SITE PLAN

LAYOUT AND MATERIALS PLAN

DATE:	OCTOBER 16, 2018
PROJECT NUMBER:	17222
DESIGNED BY:	KE
DRAWN BY:	KF
CHECKED BY:	KE
2	1
	SHEET 2 OF 7





HOWARD STEIN HUDSON

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PREPARED FOR:

DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

IGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET

REVISIONS:					
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SITE PLAN

GRADING, DRAINAGE, AND UTILITIES PLAN

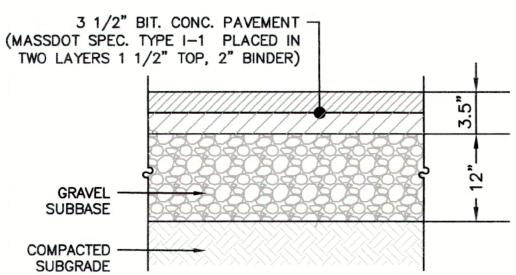
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3	
	SHEET 3 OF 7

EROSION AND SEDIMENT CONTROL NOTES

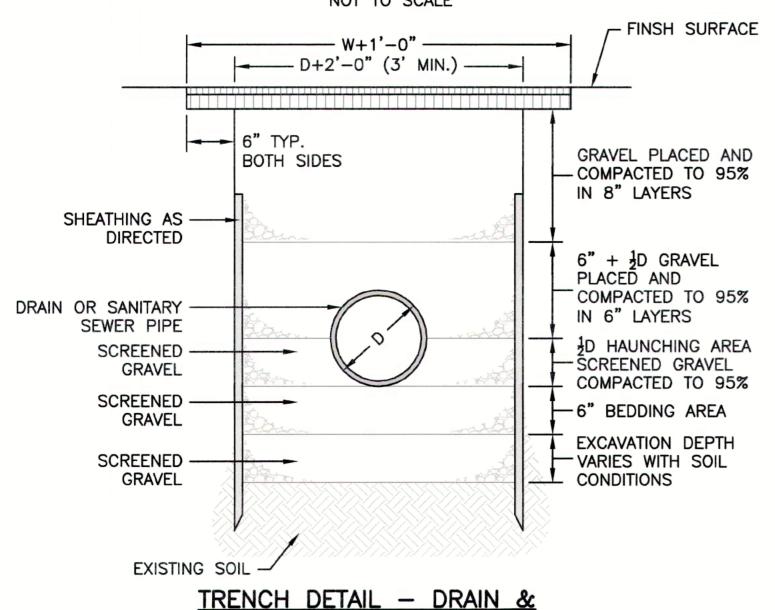
- EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED AND UPGRADED AS NECESSARY DURING CONSTRUCTION BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND INSTALL ADDITIONAL CONTROL MEASURES AS NEEDED DURING CONSTRUCTION.
- 2. ALL CATCH BASINS RECEIVING DRAINAGE FROM THE PROJECT SITE MUST BE PROVIDED WITH A CATCH BASIN FILTER.
- 3. STABILIZATION OF ALL RE-GRADED AND SOIL STOCKPILE AREAS MUST BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- 4. SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROL DEVICES MUST BE PROPERLY REMOVED AND DISPOSED. ALL DAMAGED CONTROLS MUST BE REMOVED AND REPLACED.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN. THIS INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, AND NOTIFYING THE PROPER CITY AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY. INSPECTION AND MAINTENANCE REPORTS SHALL BE SUBMITTED TO THE ARLINGTON ENGINEERING DEPARTMENT ON A WEEKLY BASIS, OR AFTER EVERY STORM EVENT GREATER THAN 1".
- 6. THE CONTRACTOR SHALL ENSURE ADJACENT ROADS ARE CLEANED AND SWEPT OF RUNOFF AND SEDIMENT DAILY.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING WIND EROSION AND DUST THROUGHOUT THE LIFE OF HIS CONTRACT. DUST CONTROL MAY INCLUDE, BUT IS NOT LIMITED TO, SPRINKLING OF WATER ON EXPOSED SOILS AND STREET SWEEPING ADJACENT ROADWAYS.
- 8. IF FINAL GRADING IS TO BE DELAYED FOR MORE THAN 21 DAYS AFTER LAND DISTURBANCE ACTIVITIES CEASE, TEMPORARY VEGETATION OR MULCH SHALL BE USED TO STABILIZED SOILS WITHIN 14 DAYS OF THE LAST DISTURBANCE.
- 9. IF A DISTURBED AREA WILL BE EXPOSED FOR GREATER THAN ONE YEAR, PERMANENT GRASSES OR OTHER APPROVED COVER MUST BE INSTALLED.
- 10. THE CONTRACTOR MUST KEEP ON—SITE AT ALL TIMES ADDITIONAL SILT FENCE AND HAY BALES FOR THE INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE CITY TO MITIGATE ANY EMERGENCY CONDITION.
- 11. THE CONSTRUCTION FENCING AND EROSION AND SEDIMENT CONTROLS AS SHOWN MAY NOT BE PRACTICAL DURING ALL STAGES OF CONSTRUCTION. EARTHWORK ACTIVITY ON—SITE MUST BE DONE IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO A SEDIMENT CONTROL DEVICE OR INFILTRATED TO THE GROUND.
- 12. DEMOLITION AND CONSTRUCTION DEBRIS MUST BE PROPERLY CONTAINED AND DISPOSED OF.
- 13. DISPOSAL OF ALL DEMOLISHED MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE HAULED OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.
- 14. DURING CONSTRUCTION, EVERY EFFORT SHALL BE MADE TO MINIMIZE CONSTRUCTION WASTE AND DEBRIS.
- 15. EVERY EFFORT SHALL BE MADE TO MINIMIZE AIR POLLUTION, SEDIMENTATION, WIND EROSION, DUST, AND CONSTRUCTION DEBRIS TO MAINTAIN A HEALTHY CONSTRUCTION ENVIRONMENT.

GENERAL CONSTRUCTION SEQUENCE

- 1. INSTALL EROSION AND SEDIMENT CONTROLS PRIOR TO STARTING ANY EARTHWORKS ACTIVITY.
- 2. INSTALL/UPGRADE SITE FURNISHINGS.
- 3. INSTALL PAVEMENT AND CURBS.
- 4. EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED.



FULL DEPTH PARKING LOT SECTION DETAIL NOT TO SCALE



SANITARY SEWER

NOT TO SCALE

COMPACT EXCAVATED SOIL
ON UPSLOPE SIDE

STRAW WATTLE
8" MIN.

SET WATTLE IN A
2-3" DEEP TRENCH

INSTALL WITH 18" OR 24"

1x1 WOOD STAKES

1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3"(5-7.5 CM) DEEP X 9"(22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.

- PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
- 3. SECURE THE WATTLE WITH 18-24" (45.7-61 CM) STAKES EVERY 3-4' (0.9 1.2 M) AND WITH A STAKE ON EACH END. (STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.

STRAW WATTLE DETAIL NOT TO SCALE

NOT TO SCALE

1" REBAR FOR BAG-REMOVAL FROM INLET

OPTIONAL OVERFLOW

(REBAR NOT INCLUDED)

2'x2' SILT SACK ®

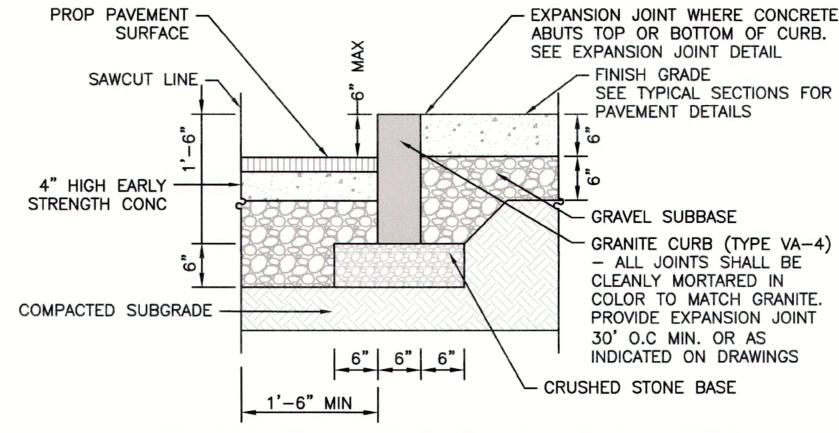
DUMP LOOPS

(REBAR NOT INCLUDED)

- CURB OPENING

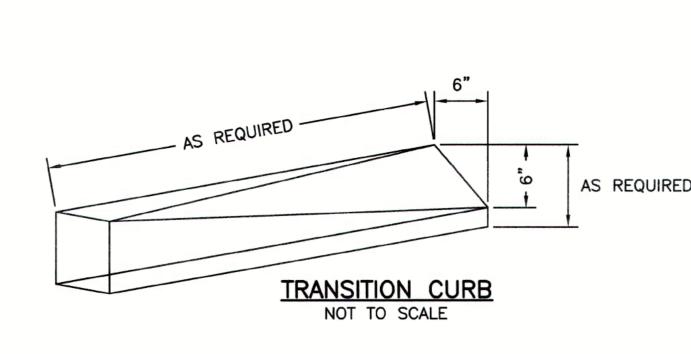
EXPANSION

RESTRAINT

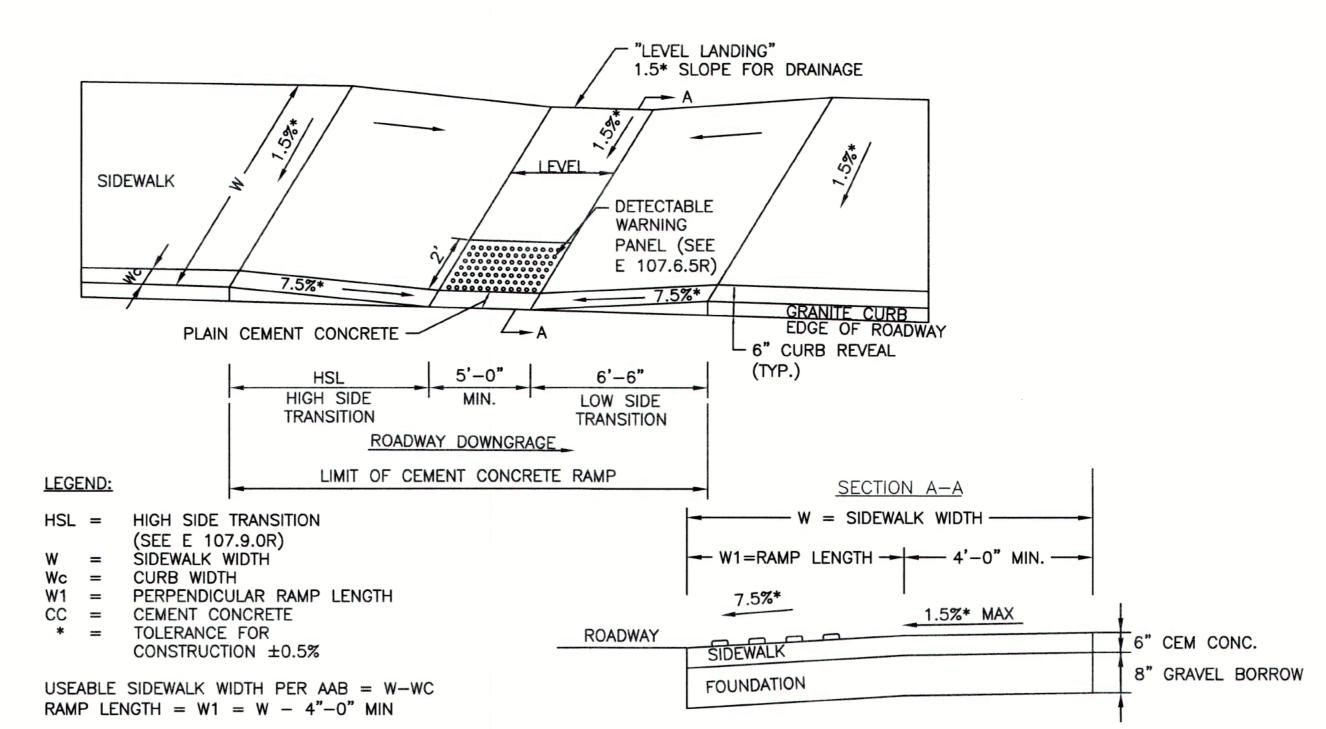


NOTE: USE 2" BIT. CONC. TOP COURSE ABOVE HIGH EARLY STRENGTH CONCRETE FOR RESETTING CURBS

VERTICAL GRANITE CURB







WHEELCHAIR RAMPS ON NARROW SIDEWALK WITH DETECTABLE WARNING PANEL (E107.2.1R)

NOT TO SCALE



HOWARD STEIN HUDSON

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DREW HUNTER HIGHROCK CHURCH 14 MILL STREET ARLINGTON, MA 02476

GHROCK CHURCH RENOVATION 0,12,14,16 MILL STREET

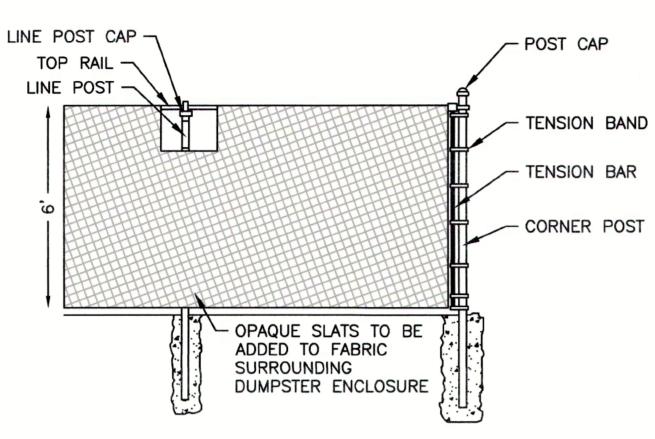
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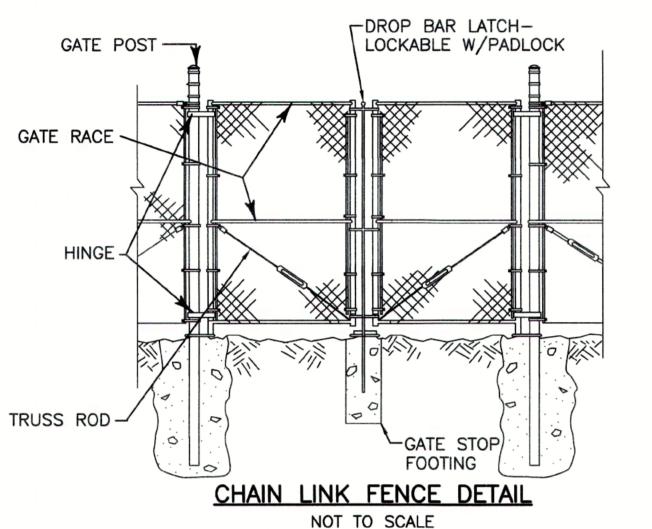


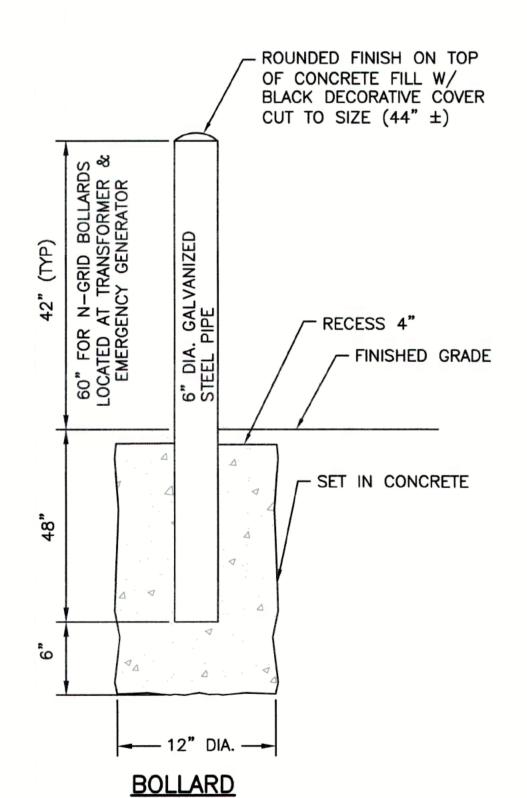
SITE PLAN

DETAIL SHEET 1 OF 4

DATE:	OCTOBER 16, 2018
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4	
	SHEET 4 OF 7



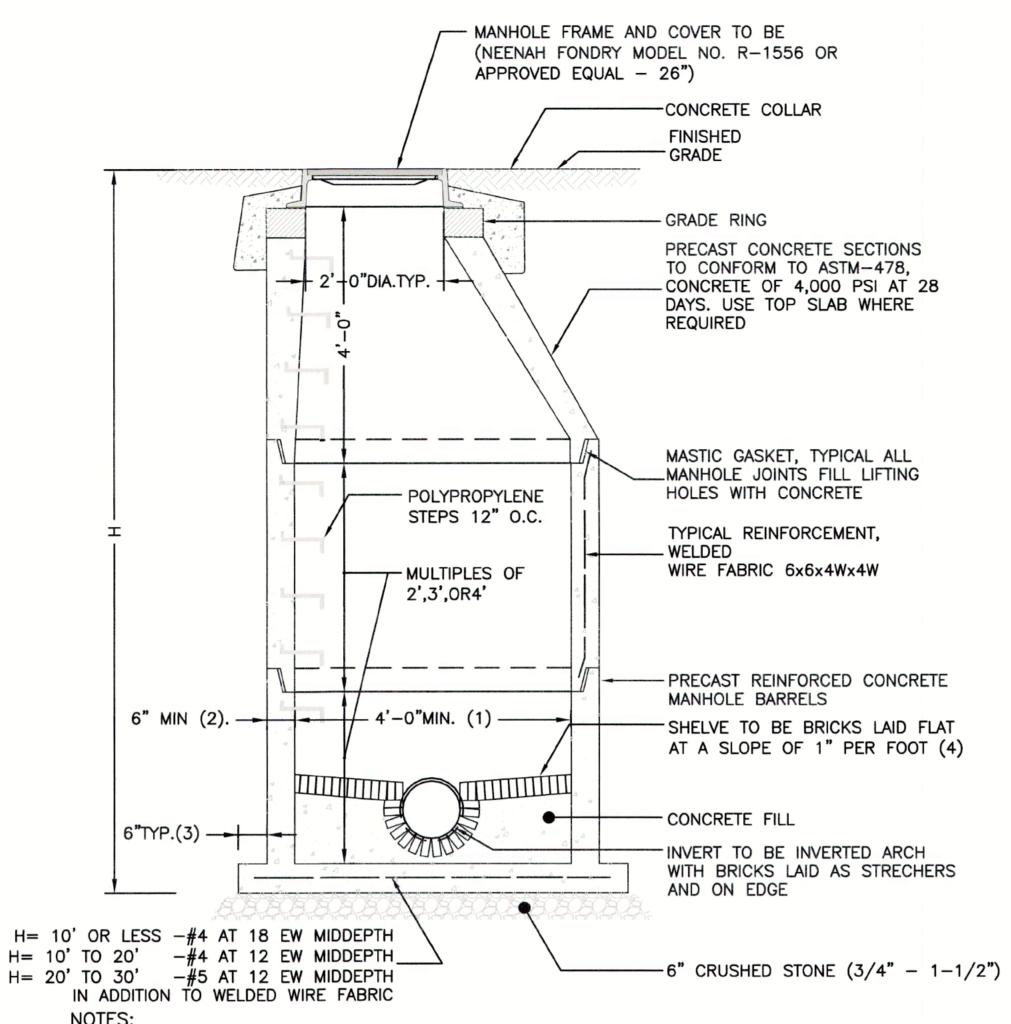




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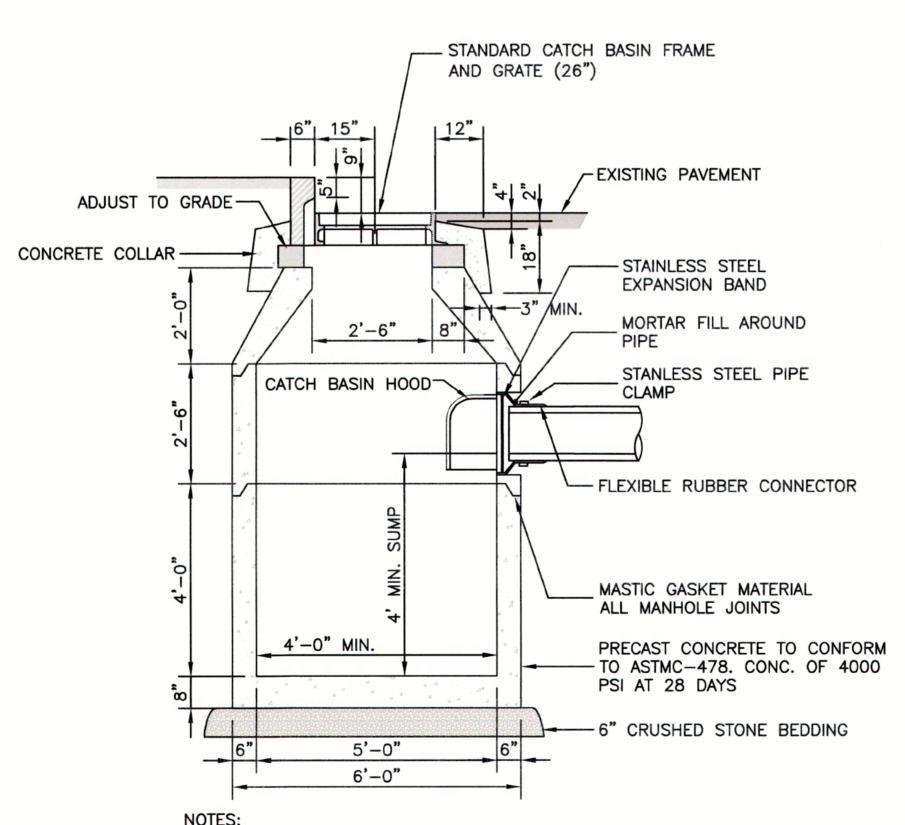
NOTE:

- DIG POST HOLE FOR BOLLARD, PARTIALLY FILL HOLE WITH CONCRETE MIX, INSTALL PIPE, FILL HOLE, AND FILL PIPE W/CONCRETE MIX.
- SÚPPORT BOLLARD AND PROTECT FROM DAMAGE WHILE CONCRETE CURES. THEN PAINT WITH APPROPRIATE PAINT. COLOR AS REQUIRED BY OWNER.



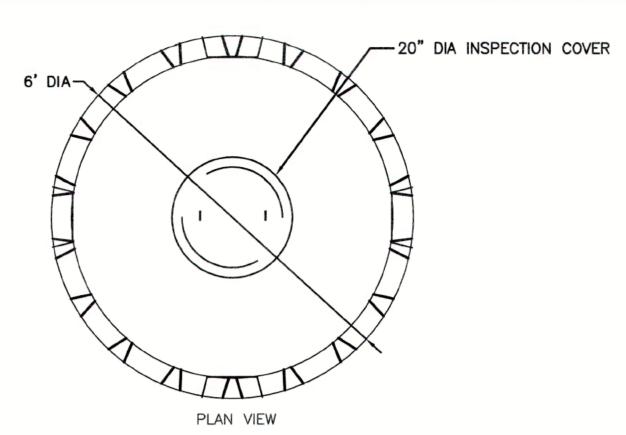
- 1. 5'-0" DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 20 FEET OR WHEN ORDERED BY THE ENGINEER.
- 6 INCH MIN. WALL THICKNESS AND 7 INCH MIN. BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.
 6 INCH LIP OPTIONAL UNLESS OTHERWISE NOTED. CONCRETE INVERT AND SHELF MAY BE SUBSTITUTED IN STORM DRAIN MANHOLES AS DIRECTED BY THE ENGINEER.

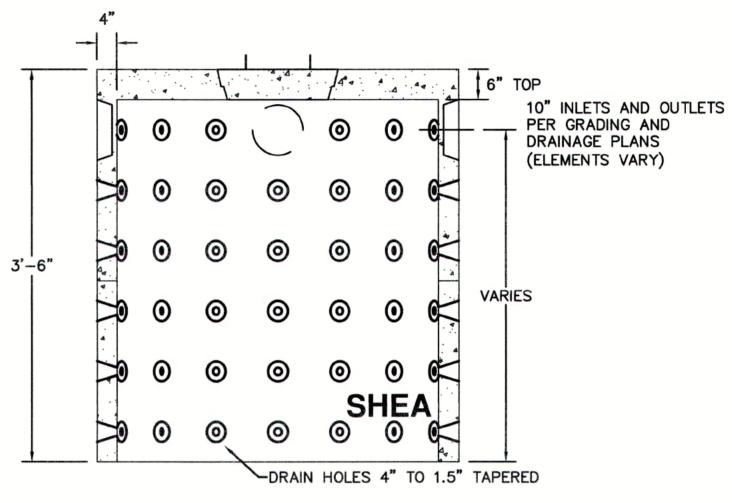
PRECAST CONCRETE MANHOLE NOT TO SCALE



NOTES:
1. ADEQUATE FOR H-20 MINIMUM LOADING.

CATCH BASIN NOT TO SCALE





NOTES:

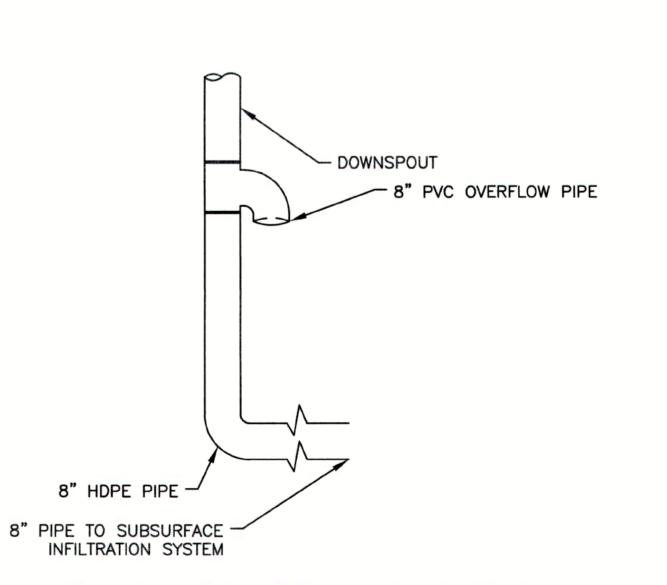
- 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
- 2. AVAILABLE IN H-20 LOADING.
- CAPACITY INCREASES IN INCREMENTS OF 500 GALLONS FOR EACH 3' SECTION ADDED.

	ITEM NO.		WEIGHT
1000 GALLON	DW-1000SDW	STANDARD	6,778#
-	DW-1000SDWH	H-20	6,778#
3' STACKABLE	DW-3SS		2,008#

PRECAST CONCRETE DRYWELL NOT TO SCALE

SECTION VIEW

SHAE CONRETE PDOCUTSTM



ROOF DRAIN DOWNSPOUT AND OVERFLOW
SECTION DETAIL
NOT TO SCALE

HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C Chelmsford, MA 01824 www.hshassoc.com

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> HIGHROCK CHURCH RENOVATION 10,12,14,16 MILL STREET

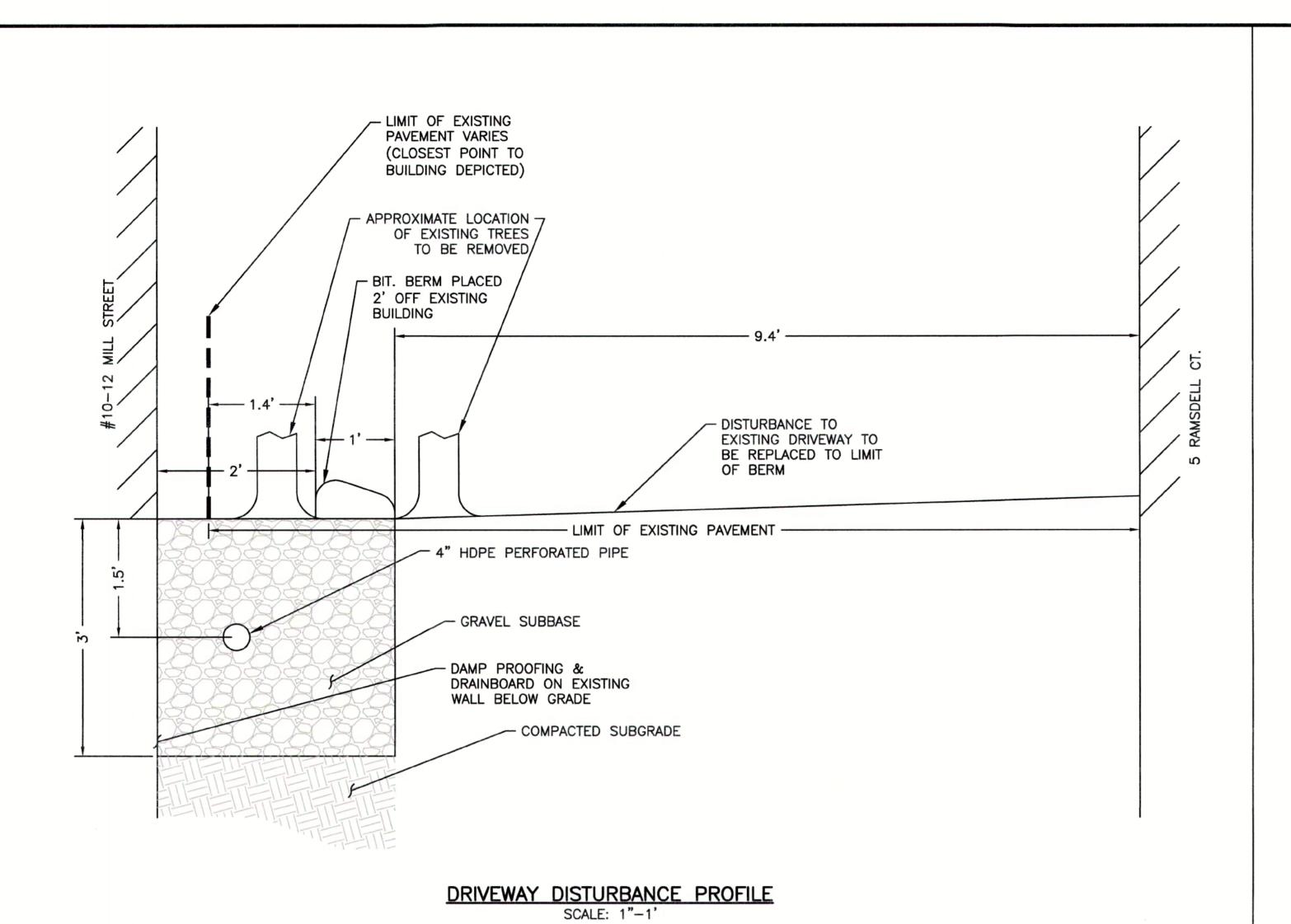
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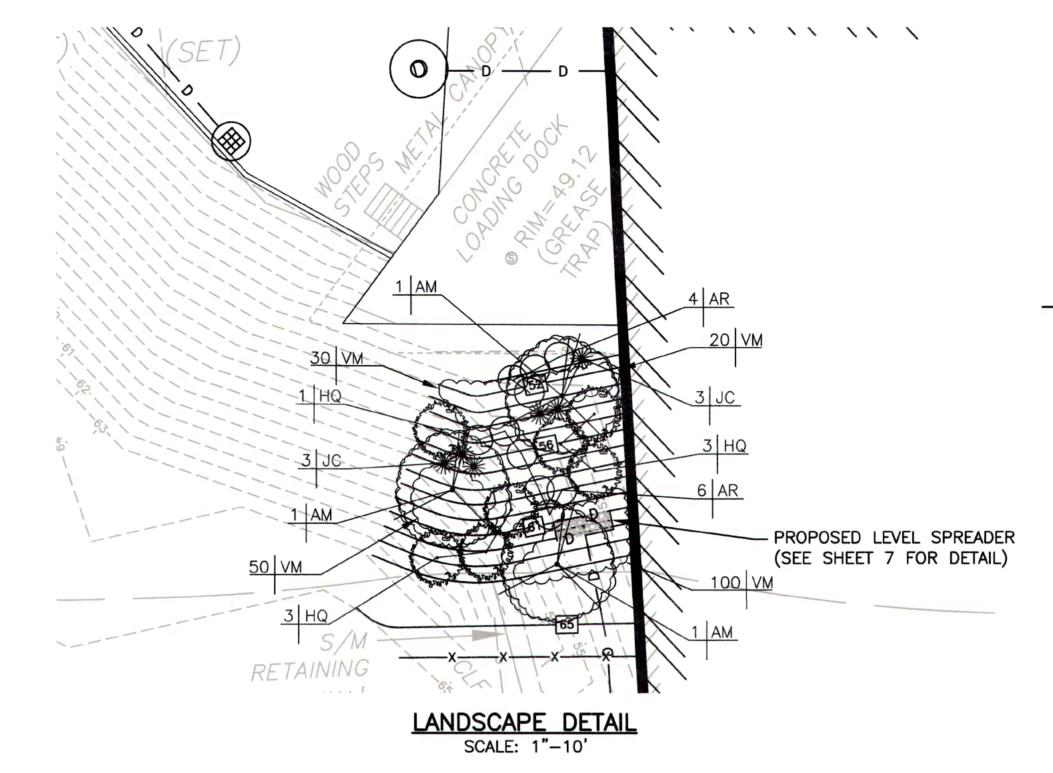


SITE PLAN

DETAIL SHEET 2 OF 4

DATE:	OCTOBER 16, 2018
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	5
	SHEET 5 OF 7





PLANT SCHEDULE					
KEY	QTY	LATIN NAME	COMMON NAME	SIZE	COMMENTS
TREES					
AM	3	AMELANCHIER 'ROBIN HILL'	ROBIN HILL SERVICEBERRY	6-7 FT. B&B	WHITE FLOWER EARLY SPRING/MULTISTEM, 15FT X 15FT
SHRUE	3S				
AR	10	ARONIA MELANOCARPA 'LOW SCAPE MOUND'	LOW SCAPE 10 CHOKEBERRY	#2 POT	WHITE FLOWERS/ 2.5FT X 2.5FT
HQ	7	HYDRANGEA QUERCIFOLIA 'SNOW QUEEN'	OAKLEAF HYDRANGEA	3-4 FT. B&B	WHITE SUMMER FLOWER/ 4FT. X 5FT.
JC	6	JUNIPERUS CONFERTA 'BLUE PACIFIC'	SHORE JUNIPER	#3 POT	10" X 5FT. EVERGREEN GROUNDCOVER
GROUN	IDCOVE	RS			
VINCA	4 FLATS	VINCA MINOR	PERIWINKLE	FLATS/50 PLANTS	



Lorayne Black ASLA Landscape Architect

978.302.0448 lorayne@lorayneblack.com P.O. Box 595, Groton, MA 01450

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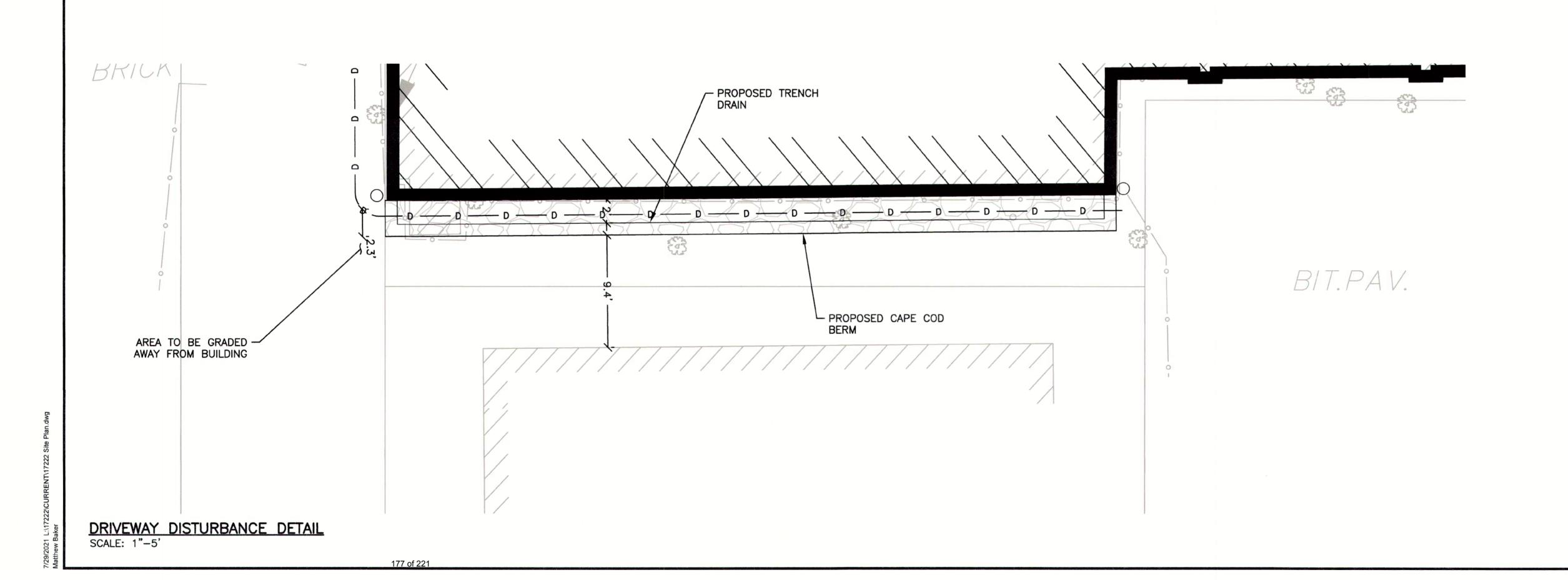
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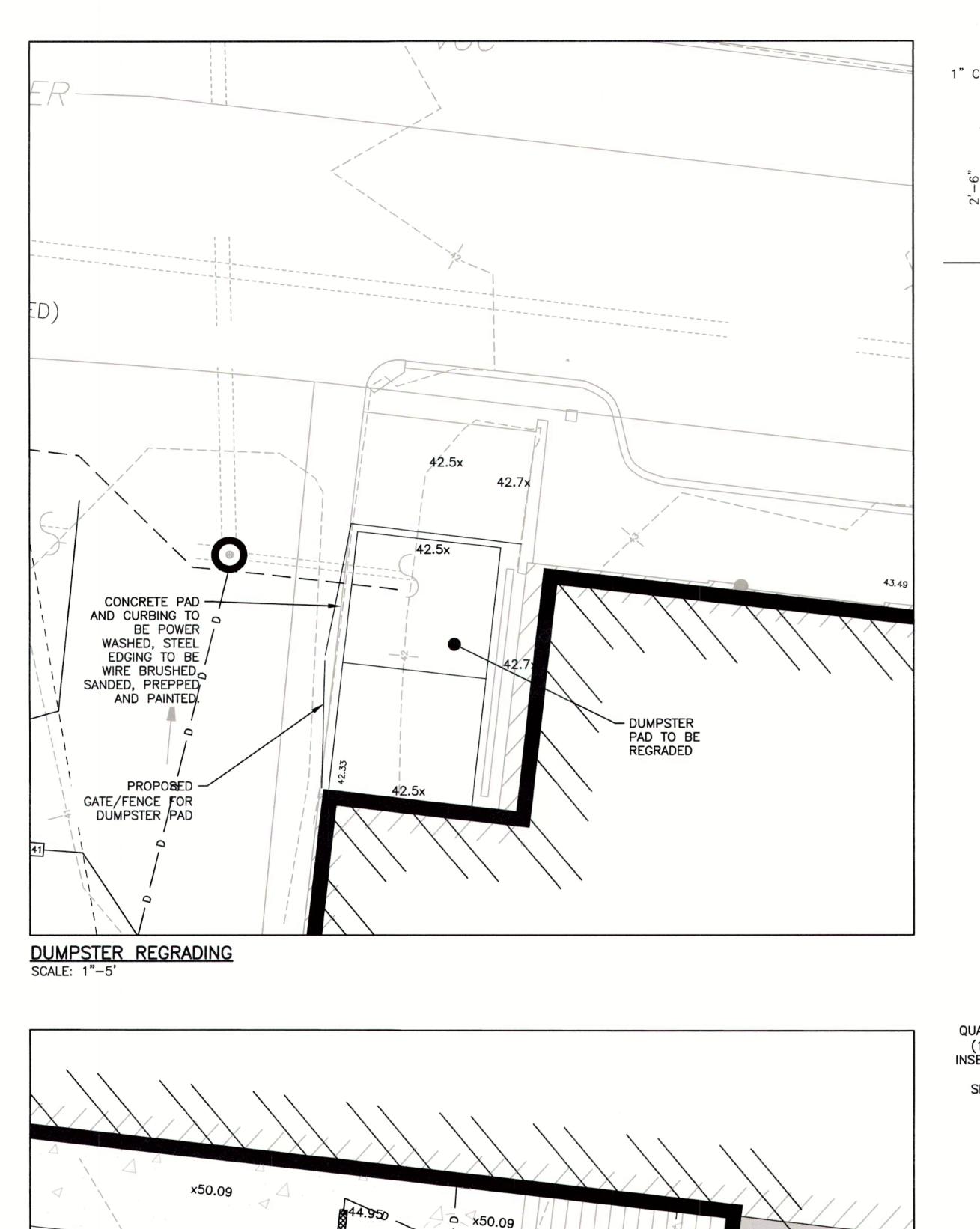


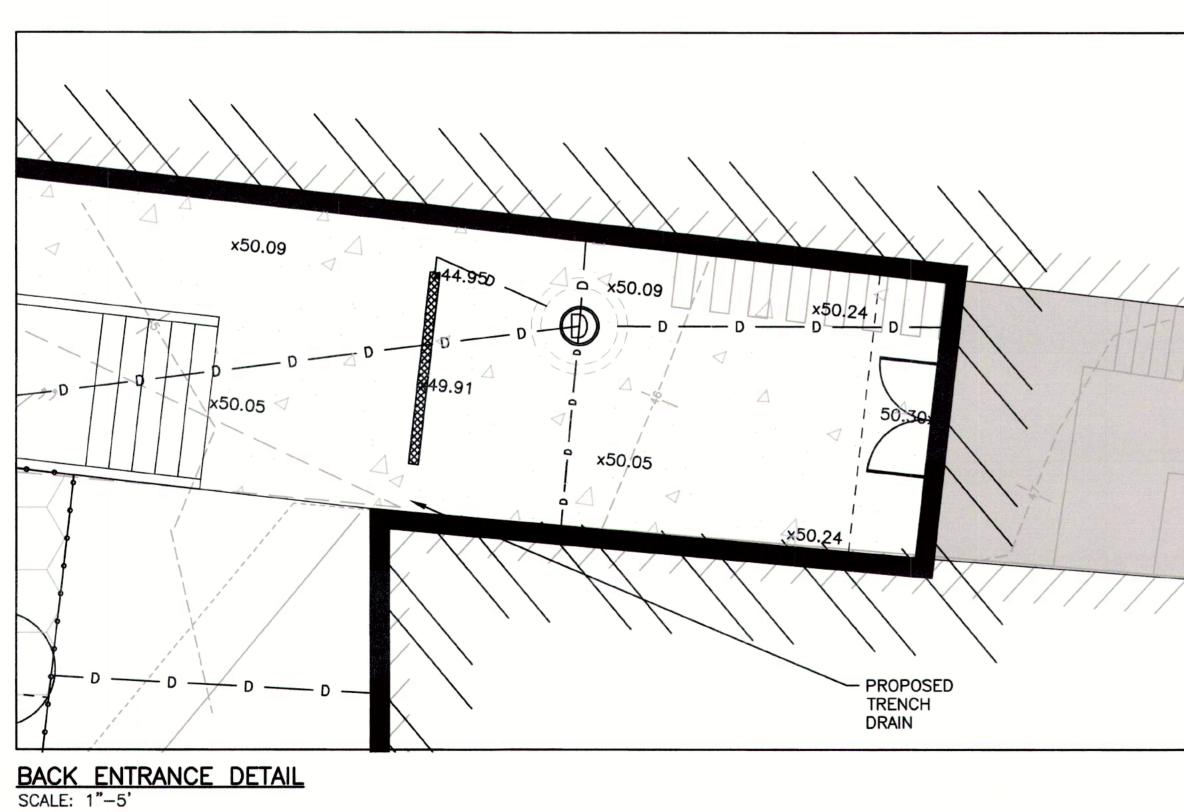
SITE PLAN

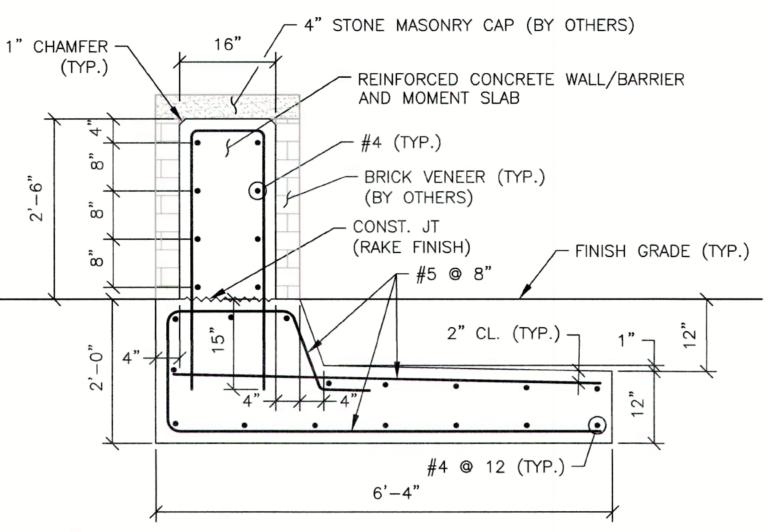
DETAIL SHEET 3 OF 4

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HECKED BY:	KE	
6		
	SHEET 6 OF 7	









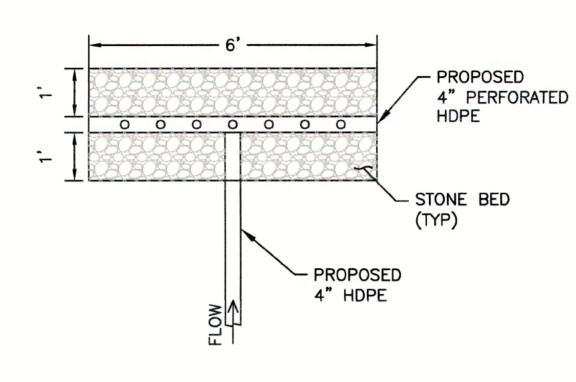
NOTES:

1. ALL CONCRETE SHALL BE 4000 PSI, 1.5 IN., 565 CEMENT CONCRETE AND BE A MASSDOT APPROVED MIX DESIGN. REINFORCEMENT SHALL CONFORM TO THE TOTAL OF AASHTO M31 GRADE 60 AND BE EPOXY COATED.

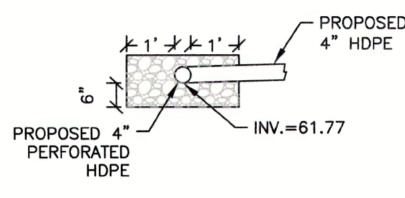
2. WALL/BARRIER AND MOMENT SLAB SHALL BE CONSTRUCTED AS ONE CONTINUOUS SECTION FOR ENTIRE LENGTH, FREE OF JOINTS OR SPLICES.

WALL/BARRIER AND MOMENT SLAB DETAIL

SCALE: 3" = 1'-0"



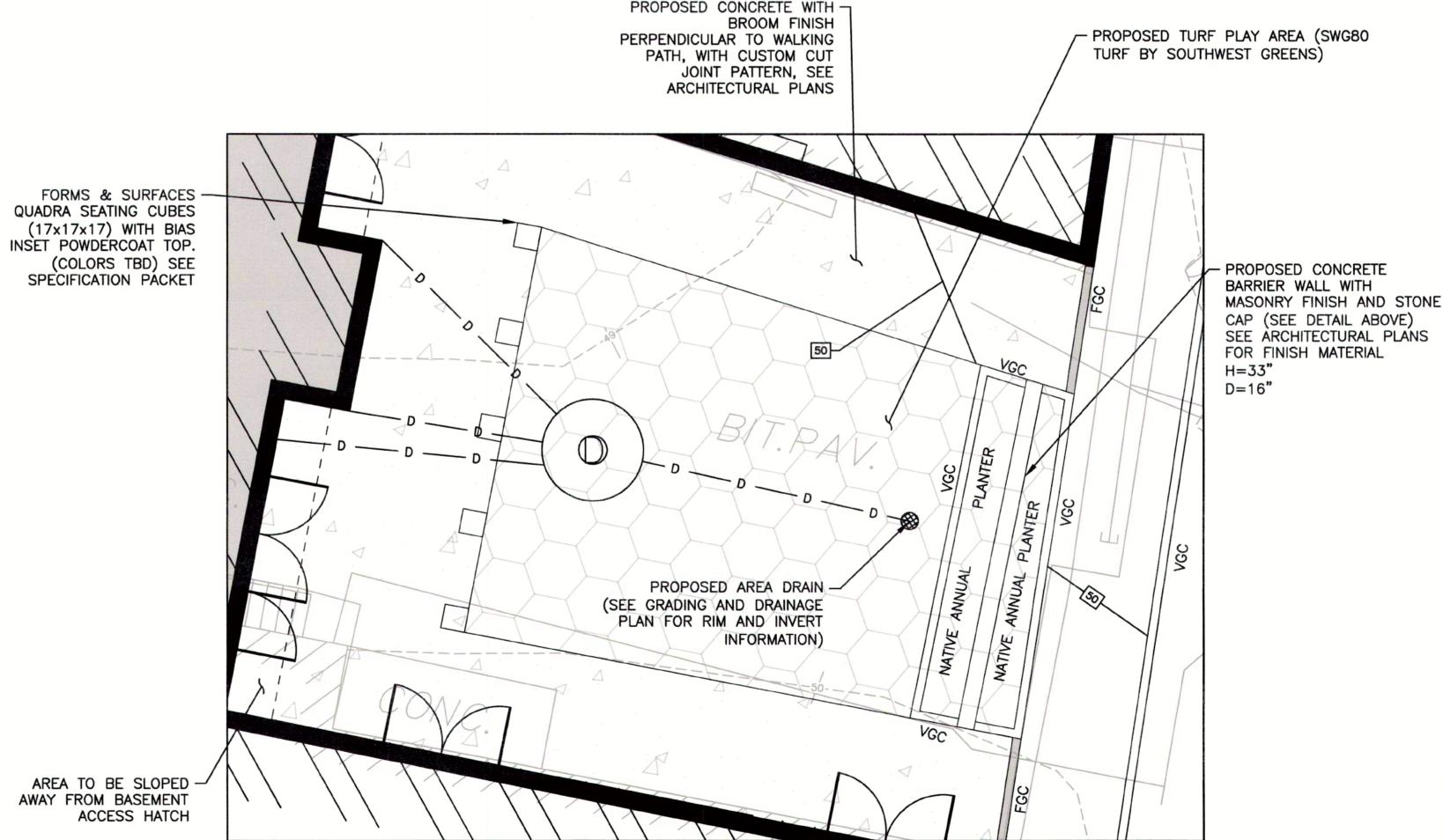
PLAN VIEW



PROFILE VIEW

LEVEL SPREADER DETAIL

NOT TO SCALE



HOWARD STEIN HUDSON

114 Turnpike Road, Suite 2C

Chelmsford, MA 01824

www.hshassoc.com

PREPARED FOR:

DREW HUNTER HIGHROCK CHURCH

14 MILL STREET

ARLINGTON, MA 02476

REVISIONS: NO BY DATE DESCRIPTION 2 KF 12-15-20 PER ARCH. DIRECTION 3 SM 12-23-20 PER ARCH. COMMENTS 4 KF 01-27-21 PER ARCH. COMMENTS 5 MB 02-09-21 DRIVEWAY DETAIL 6 KL 03-11-21 PER CLIENT COMMENTS 7 | KF | 04-23-21 | ADD DECK TO REAR 8 KF 07-01-21 OOC AMENDMENT 9 | KF | 07-29-21 | OOC AMENDMENT



SITE **PLAN**

DETAIL SHEET 4 OF 4

TE:	OCTOBER 16, 2018
OJECT NUMBER:	17222
SIGNED BY:	KE
AWN BY:	KF
IECKED BY:	KE
7	
	SHEET 7 OF 7

178 of 221

COMMUNITY ENTRY PLAZA DETAIL

NOT TO SCALE

O,



Town of Arlington, Massachusetts

Request for Certificate of Compliance

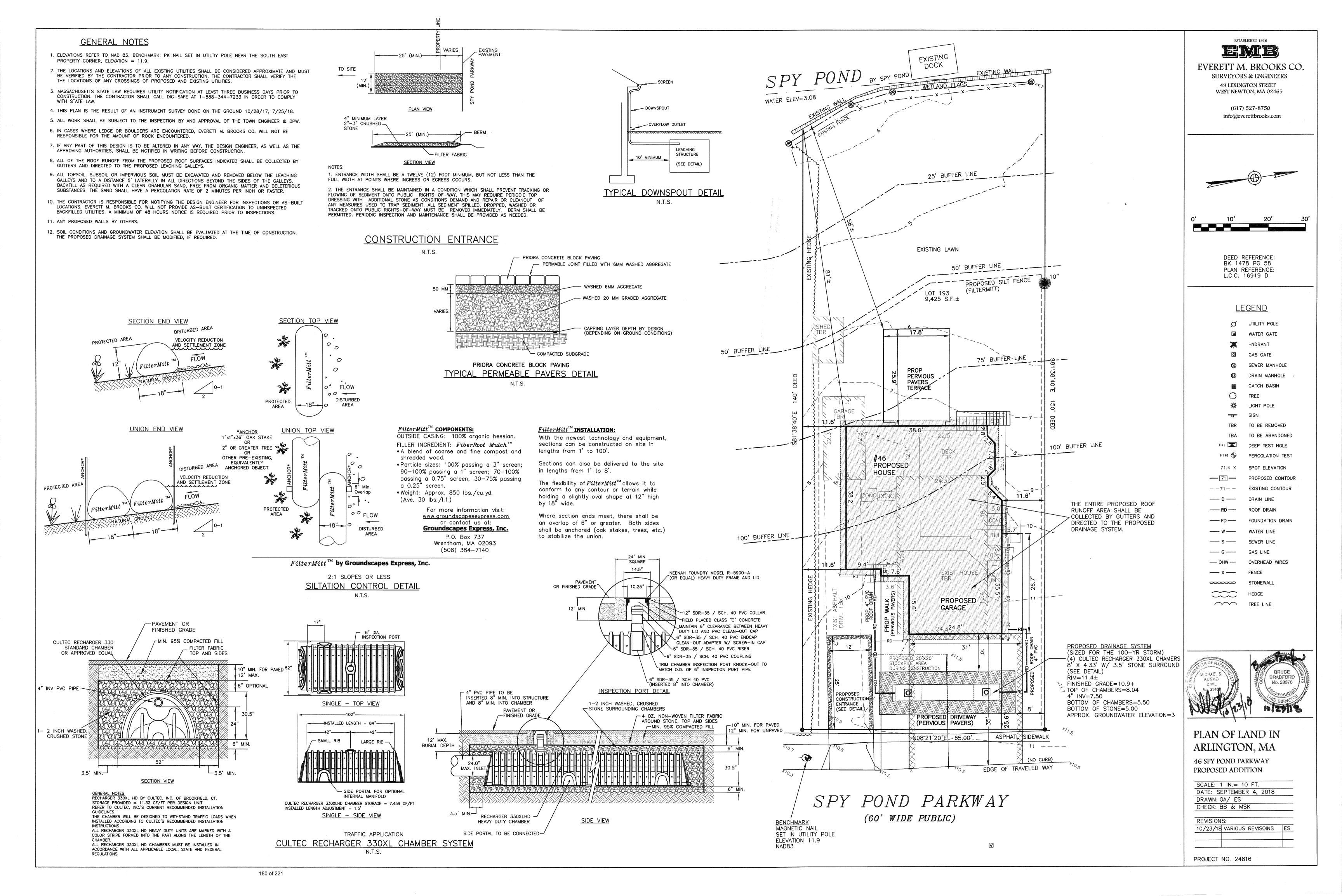
Summary:

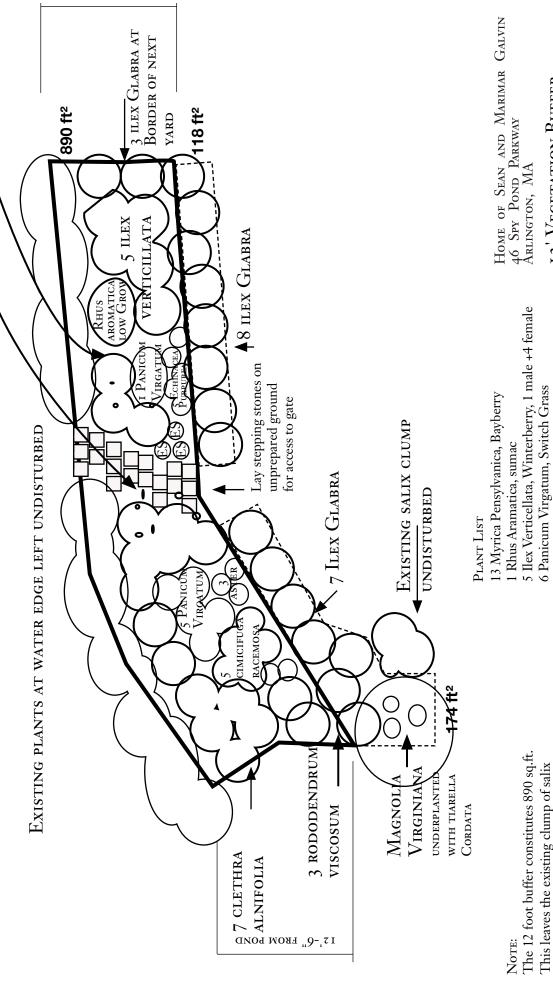
Request for Certificate of Compliance:46 Spy Pond Parkway MassDEP File #091-0300

The project as approved proposed to raze and rebuild an existing single family home and add resource area improvements through a native vegetation buffer along Spy Pond and pervious paver 8:00pm driveway, walkways, and patio in the 100-ft wetlands buffer and AURA of Spy Pond. The project was approved on 11/20/2018.

ATTACHMENTS:

	Type	File Name	Description
D	Request for Certificate of Compliance	46_Spy_Pond_Parkway_Plan_10232018.pdf	46 Spy Pond Parkway Proposed Plan
ם	Request for Certificate of Compliance	46_Spy_Pond_Parkway_Planting_Plan_10202018.pdf	46 Spy Pond Parkway Proposed Planting Plan
ם	Request for Certificate of Compliance	46_Spy_Pond_Parkway_Recorded_OOC_11292018.pdf	46 Spy Pond Parkway OOC
ם	Request for Certificate of Compliance	46_Spy_Pond_Parkway_RCOC_Cover_Letter_08252020.PDF	46 Spy Pond Parkway Request for COC Letter
ם	Request for Certificate of Compliance	46_Spy_Pond_Parkway_RCOC.pdf	46 Spy Pond Parkway Request for COC
D	Request for Certificate of Compliance	46_Spy_Pond_Parkway_As-Built.PDF	46 Spy Pond Parkway As Built
D	Request for Certificate of Compliance	46_Spy_Pond_Parkway_COC_Additional_Letter_02252021.pdf	46 Spy Pond Parkway RCOC Additional Letter
D	Request for Certificate of Compliance	46_Spy_Pond_Parkway_Grass_Replacement_for_Buffer_As_Built.pdf	46 Spy Pond Parkway Buffer As Built
D	Request for Certificate of Compliance	46_Spy_Pond_Parkway_As_Built_04292021.PDF	46 Spy Pond Parkway As Built_revised
ם	Request for Certificate of Compliance	46_Spy_Pond_Parkway_RCOC_Letter_04292021.PDF	46 Spy Pond Parkway RCOC Letter_revised





13 Myrica Pensylvani

12' Vegetation Buffer Planting

OCTOBER 20,2018

3 Aster Nove Angliae, New England Aster

3 Erogrostis Spec., Purple Love Grass

isolated in an awkward way so I have added

the ilex band and the Magnolia. (dotted

dine) Combined they add 292 sq. ft.

Stotal planting area is therefore 1182 sq.ft.

5 Echinacea Purpurea, Coneflower

3 Rododendron Viscosum, Swamp Azalea

7 Tiarella Cordata, Foamflower

18 Ilex Glabra, Ink Berry I Magnolia Virginiana

7 Clethra Alnifolia, Sweet Pepper Bush

5 Cimicifuga Racemosa, Snakeroot

The office of Michael J Scanlon

Interior Design Space Planning Architectural Detailing 28 Holyoke Street, Boston, MA 02116 Tel 617-894-9785 E-Mail mjs@mjscanlon.com

National Council for Interior Design Qualificationcert #12167



Bk: 01478 Pg: 58 Cert#: 260345 Doc: ORD 11/29/2018 10:52 AM



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 - Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #
091-0300
eDEP Transaction #

		-5 : 100000011 ACC IVI.G.L. C. 131, §40	eDEP Transaction #
		•	Arlington
	B. CO.		Aimigion
	A. General Information	n	City/Town
Please note:			
this form has	1. From: Arlington		
been modified	Conservation Commission		
with added	2. This issuance is for)	
space to	2. This issuance is for	a Monday (Co. III)	
accommodate the Registry	(check one):	a. Order of Conditions b. Amended	Order of Conditions
of Deeds	3. To: Applicant:		co. or ooriginous
Requirements	3. fo: Applicant:		
	Sean		
form a set of	a. First Name	Galvin	
Important: When filling	The state of the s	b. Last Name	
out forms on		·	
the	c. Organization		
computer.			
use only the	d. Mailing Address		
tab key to	630 High Street, Medford		
move your	e. City/Town	MA	00455
cursor - do	•	f. State	02155
not use the	4. Property Owner (if different from		g. Zip Code
return key.	-1-13 onuce (in dinerent flot	n applicant):	
	a. First Name		
		b. Last Name	
	c. Organization		
	o. Organization		
	d. Mailing Address		
	_		
	e. City/Town		
		f. State	g. Zip Code
	5. Project Location:		
		Arlington 102 197	כ
	46 Spy Pond Parkway	Artinoton	-
	a. Street Address	The state of the s	
	18	b. City/Town	
	c. Assessors Map/Plat Number	9-2	
		d. Parcel/Lot Number	
	Latitude and Longitude, if know	17471-40 400	m-04.00
	Siteso, il Kilon		m21.06s
		e. Lon	Oltude

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #
091-0300
eDEP Transaction #
Arlington
City/Town

A. General Information (cont.)

	one parce	11).	•	,	s for (attach addition	iai III	iormation if more than
	a. County	COULII			260345	·	
	1478				b. Certificate Num	iber (i	f registered land)
	c. Book				58		Document #: 17094
	C. DOOR	7/40/0040			d. Page		
7.	Dates:	7/19/2018 a. Date Notice of Ir	. A 6 GTT	**	11/1/2018		11/20/2018
_	F-1 A				 b. Date Public Hearing Cl 	losed	c. Date of Issuance
8.	as needed	roved Plans and i): and in Arlington, i		r Documer	nts (attach additional	plar	or document references
		Brooks Co.			Michael S.Kos	mo (Engineer) 9/4/2018
	b. Prepared	-			 c. Signed and Star 	mped	by
	10/23/201				1"=20"		
	d. Final Revi				e. Scale		
	See attacl				1		
9000	Finding	Plan or Document Ti	tle				g. Date
que,	Following provided in the areas Protection	the review of the n this application in which work is Act (the Act). Ch	abov and propo	/e-referenc presented sed is siar	at the public hearing nificant to the following	ind b	ased on the information Commission finds that terests of the Wetlands
a.	☑ Public	Water Supply	b.	☐ Land	Containing Shellfish	C.	☑ Prevention of Pollution
d.	☐ Private	Water Supply	е.	Fishe	ries	f.	Protection of Wildlife Habitat
g.	⊠ Groun	dwater Supply	h.	Storm	Damage Prevention	1 i.	
2.	This Comn	nission hereby find	ds the	project, as	s proposed, is: (check	one	of the following boxes)
	proved sub	ject to:					
Ap							

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File # 091-0300 eDEP Transaction # Arlington City/Town

Provided by MassDEP:

B. Findings (cont.)

De	nled because:
b.	the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. A description of the performance standards which the proposed work cannot meet is attached to this Order.
c.	the information submitted by the applicant is not sufficient to describe the site, the worl or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. A description of the specific information which is lacking and why it is necessary is

3.

Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310 CMR 10.02(1)(a) a. linear feet

Inland Resource Area impacts: Check all that apply below. (For Approvals Only)

attached to this Order as per 310 CMR 10.05(6)(c).

Re	esource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4.	☐ Bank	a. linear feet	b. linear feet	c. linear feet	d. linear feet
5.	⊠ Bordering		D. Milous 1000	12	12
6.	Vegetated Wetland ☐ Land Under	a. square feet	b. square feet	c. square feet	d. square feet
	Waterbodies and Waterways	a. square feet	b. square feet	c. square feet	d. square feet
	**************************************	e. c/y dredged	f. c/y dredged		
7.	☐ Bordering Land Subject to Flooding	a. square feet	b. square feet	c. square feet	d. square feet
	Cubic Feet Flood Storage	e. cubic feet	f. cubic feet	g. cubic feet	h. cubic feet
8.	Isolated Land Subject to Flooding	a. square feet	b. square feet	g. odbie iest	n. caur reet
	Cubic Feet Flood Storage	c. cubic feet	d. cubic feet	e. cubic feet	f. cubic feet
9.	☐ Riverfront Area	a. total sq. feet	b. total sq. feet		
	Sq ft within 100 ft	c. square feet	d. square feet	D. Constant Section	É proposition
	Sq ft between 100-	o. oqualo loci	4. 040210 100t	e. square feet	f. square feet
	200 ft	g. square feet	h. square feet	i. square feet	j. square feet

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 5 - Order of Conditions

WPA Form 5 – Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

MassDEP File #	
091-0300	
eDEP Transaction #	
Arlington	
City/Town	_

Provided by MassDEP:

B. Findings (cont.)

Co	astal Resource Area Impa	cts: Check all tha	at apply below.	(For Approvals O	nly)
	F7	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10.	Areas	Indicate size ur	nder Land Under	r the Ocean, belo	W
11.	☐ Land Under the Ocean	a. square feet	b. square feet		
		c. c/y dredged	•		
12.	☐ Barrier Beaches		d. c/y dredged nder Coastal Bea	aches and/or Coa	stal Dunes
13.	☐ Coastal Beaches	a. square feet	b. square feet	cu yd c. nourishment	cu yd d. nourishment
14.	☐ Coastal Dunes	a. square feet	b. square feet	cu yd c. nourishment	cu yd d. nourishment
15.	☐ Coastal Banks	a. linear feet	b. linear feet		
16.	Rocky Intertidal Shores	a. square feet	b. square feet		
17.	☐ Salt Marshes	a. square feet	b. square feet	C. square feet	d. square feet
18.	Land Under Salt Ponds	a. square feet	b. square feet		
19.	☐ Land Containing	c. c/y dredged	d. c/y dredged		
	Shellfish	a. square feet	b. square feet	c. square feet	d. square feet
20.	Fish Runs	Indicate size un the Ocean, and Waterways, abo	or inland Land l	iks, Inland Bank, Under Waterbodie	Land Under es and
21.	☐ Land Subject to	a. c/y dredged	b. c/y dredged		
	Coastal Storm Flowage	a. square feet	b. square feet		
22.	☐ Riverfront Area	a. total sq. feet	b. total sq. feet		
	Sq ft within 100 ft	c. square feet	d. square feet	e. square feet	f. square feet
	Sq ft between 100- 200 ft	g. square feet	h. square feet	i. square feet	j. square feet

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

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MassDEP File#
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City/Town

Provided by MassDEP:

B. Findings (cont.)

* #23. If the project is for	23.
the purpose of	
restoring or	
enhancing a	
wetland	
resource area	24.
in addition to	
the square	
footage that	
has been	~
entered in	San o
Section B.5.c	
(BVW) or	Th
B.17.c (Salt	
Marsh) above,	4
please enter	٤.
the additional	
amount here.	2.

23.	Restoration/Enhancement *:	
f	890	
	a. square feet of BVW	b. square feet of salt marsh
24.	Stream Crossing(s):	
	a. number of new stream crossings	b. number of replacement stream crossings

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects.

- Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
- This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
- 4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - The work is a maintenance dredging project as provided for in the Act; or
 - b. The time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
 - If the work is for a Test Project, this Order of Conditions shall be valid for no more than one year.
- 5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order. An Order of Conditions for a Test Project may be extended for one additional year only upon written application by the applicant, subject to the provisions of 310 CMR 10.05(11)(f).
- If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on _____ unless extended in writing by the Department.
- 7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 5 — Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File #
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Arlington
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C. General Conditions Under Massachusetts Wetlands Protection Act

- This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
- 9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
- A sign shall be displayed at the site not less then two square feet or more than three square feet in size bearing the words,

"Massachusetts Department of	Environmental	Protection'	lor,	"MassDEP"]
"File Number	091-0300	33		

- Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
- 12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
- 13. The work shall conform to the plans and special conditions referenced in this order.
- 14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
- 15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
- 16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File #
091-0300
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Arlington
City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- 17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.
- 18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.
- 19. The work associated with this Order (the "Project")
 (1) ☐ is subject to the Massachusetts Stormwater Standards
 (2) ☒ is NOT subject to the Massachusetts Stormwater Standards

If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:

- a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
- b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that:

 i. all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures; ii. as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;

iii. any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;

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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;

 \emph{v} . any vegetation associated with post-construction BMPs is suitably established to withstand erosion.

- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following:
 - i.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and
 - ii.) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
- d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.
- e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.
- f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 5 - Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File # 091-0300 eDEP Transaction # Arlington

City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

g)	The	resp	onsible	party	shall:
----	-----	------	---------	-------	--------

- Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
- 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
- Allow members and agents of the MassDEP and the Commission to enter and
 inspect the site to evaluate and ensure that the responsible party is in compliance
 with the requirements for each BMP established in the O&M Plan approved by the
 issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

 Special Conditions (if you need more space for additional conditions, please attach a text.)

Access for maintenance, repair, and/or replacement of BMPs shall not be withheld.

document):	di you need more s	space for addition	onal conditions,	please attach	a text
See attached Find	lings and Conditio	ns			
-					

20. For Test Projects subject to 310 CMR 10.05(11), the applicant shall also implement the monitoring plan and the restoration plan submitted with the Notice of Intent. If the conservation commission or Department determines that the Test Project threatens the public health, safety or the environment, the applicant shall implement the removal plan submitted with the Notice of Intent or modify the project as directed by the conservation commission or the Department.

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Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File #
091-0300
eDEP Transaction #
Arlington
City/Town

D. Findings Under Municipal Wetlands Bylaw or Ordinance

	is a municipal wetlands bylaw or ordinance applicable? X Yes X	lo
<u>.</u> .	The Arlington hereby finds (check on Conservation Commission	ne that applies):
	 a.	s set forth in a
	Municipal Ordinance or Bylaw	2. Citation
	Therefore, work on this project may not go forward unless and until a re Intent is submitted which provides measures which are adequate to me standards, and a final Order of Conditions is issued.	evised Notice of eet these
	 b. that the following additional conditions are necessary to comply with ordinance or bylaw: Arlington Bylaw for Wetlands Protection 	·
	Municipal Ordinance or Bylaw	Title V, Art 8 2. Citation
•	The Commission orders that all work shall be performed in accordance with conditions and with the Notice of Intent referenced above. To the extent the conditions modify or differ from the plans, specifications, or other proposals the Notice of Intent, the conditions shall control.	at the following submitted with
	The special conditions relating to municipal ordinance or bylaw are as follow more space for additional conditions, attach a text document): See attached Findings and Conditions	ws (if you need

wpeform5.doc + rev. 6/16/2015

Page 10 of 12



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File # 091-0300

eDEP Transaction #

Arlington City/Town

MESTA SE SOUTH SELECTOR	Si	Q	a	tı	Same	re	S

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

Please indicate the number of members who will sign this form.

This Order must be signed by a majority of the Conservation Commission.

1. Date of Issuance

2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different

from anti-	lectronically, and the property owner, if different
from applicant.	
\sim \sim \sim \sim \sim \sim	Je 11/6
Signatures	
Warren san	
KC 1	
whyonick-	
DA to the second of the	by certified mail, return receipt
by hand delivery on	requested, on
11/20/2018	roquesteu, On
Date Date	
Date .	Date

F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.

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Page 11 of 12



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File # 091-0300 eDEP Transaction # Arlington

City/Town

G. Recording Information

Prior to commencement of work, this Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

Arlington		
Conservation Commission		
Detach on dotted line, have stamped by the Regi Commission.	istry of Deeds and s	submit to the Conservation
То:		
Arlington		
Conservation Commission		
Please be advised that the Order of Conditions t	for the Project at:	
46 Spy Pond Parkway	091-0300	
Project Location	MassDEP File Nun	nber
Has been recorded at the Registry of Deeds of:		
Middlesex South		
County	Book	Page
for. Sean Galvin		. 390
Property Owner		
and has been noted in the chain of title of the aff	ected property in:	
	, , , , , , , , , , , , , , , , , , ,	
Book	Page	
In accordance with the Order of Conditions issue	- ما مما	
that the Order of Containons issue	eu on.	
Date		
If recorded land the		
If recorded land, the instrument number identifying	ng this transaction is	S:
Instrument Number		
if regional land the		
If registered land, the document number identifyi	ng this transaction i	s:
Document Number		
Document Number Signature of Applicant		

wpaform5.doc - rev. 6/16/2015

Page 12 of 12

DOCUMENTS REVIEWED

- Notice of Intent for work at 46 Spy Pond Parkway, Arlington, MA, prepared by Goddard Consulting LLC, for the Applicant: Sean Galvin, dated July 16, 2018.
- Wetland Border Report, prepared by Goddard Consulting LLC, dated July 24, 2018.
- Square Footage Existing and Proposed Impermeable Area, prepared by Goddard Consulting LLC, amended March 2018, revised June 12, 2018, revised again October 12, 2018.
- Existing Conditions Plan of 46 Spy Pond Parkway, prepared by Everett M. Brooks Co. and the Studio of Michael J Scanlon, stamped by Bruce Bradford, dated June 11, 2018, revised October 23, 2018.
- Proposed Plan of 46 Spy Pond Parkway, prepared by Everett M. Brooks Co. and the Studio of Michael J Scanlon, stamped by Bruce Bradford, dated June 11, 2018, revised October 23, 2018.
- 6. Notations on Treatment of Landscape & Materials for Drive, Paths and Terrace, prepared by the Studio of Michael J Scanlon, dated June 30, 2018.
- 7. Detailed Plan of Land in Arlington, MA, prepared by Everett M. Brooks Co., stamped by Michael S. Kosmo (Civil) and Bruce Bradford (Land Surveyor), dated September 4, 2018, revised October 23, 2018.
- Entire Proposed Roof Runoff Area and Drainage Analysis, prepared by Everett M. Brooks Co., stamped by Michael S Kosmos, dated September 4, 2018, revised September 27, 2018.
- Alternatives Analysis, prepared by not listed, date not listed.
- 10. Climate Change Resilience Compliance, prepared by Goddard Consulting LLC, dated October 22, 2018.
- 11. Plan Showing Vegetated Buffer, prepared by Michael J Scanlon, dated October 20, 2018.
- Existing Planting in the 100 Foot Buffer Plan, prepared by Michael J Scanlon, dated October 20, 2018.
- Plan Showing 12 Foot Vegetation Buffer at Pond, prepared by Michael J Scanlon, dated October 20, 2018.
- 12' Vegetation Buffer Planting Plan, prepared by Michael J Scanlon, dated October 20, 2018.

1

 Letter from MassWildlife concerning proposed buffer planting, prepared by Mass Division of Fisheries & Wildlife, dated October 30, 2018.

PROCEDURAL SUMMARY

The Conservation Commission held a public hearing on the Notice of Intent on August 2, 2018. The hearing was continued several times at the request of the applicant. The Commission closed the hearing on November 1, 2018, and on November 15, 2018 deliberated and voted 7-0 to approve the Project with conditions under the Wetlands Protection Act (the "Act") and voted 7-0 to approve the Project with conditions under the Arlington Wetlands Protection Bylaw (the "Bylaw").

FINDINGS OF FACT AND LAW UNDER ARLINGTON WETLANDS PROTECTION BYLAW AND WETLANDS PROTECTION ACT

- A. The Project as approved involves the demolition and construction of a single family home on a parcel abutting Spy Pond. The new home will create a net increase of 144.25 square feet of impervious surface within the 100 foot wetland buffer/Adjacent Upland Resource Area. The project includes the construction of pervious-paved driveway, walkways, and backyard terrace. The project also includes the creation of a 890 square foot vegetated buffer toward the pondend of the parcel near existing vegetation along the pond's bank. The project's drainage system captures the entire roof's runoff and infiltrates the water through a Cultec Recharger system.
- B. The parcel is approximately 9,425 square feet, located on Spy Pond, near the Spy Pond Parkway and Bay State Road intersection.
- C. The following Resource Areas are present on the site or within 100 feet of the lot lines: Bordering Vegetated Wetland ("BVW") and Adjacent Upland Resource Area ("AURA") (Bylaw) and Buffer Zone (Act) to Bank and BVW. The Commission finds accurate the delineation of Resource Areas shown on the approved Site Plan.
- D. The proposal also includes the construction of a native vegetated wetlands mitigation buffer.
- E. Based on the testimony at the public hearing, and review of the application materials and the documents listed above submitted during the public hearing, the Commission concludes that the proposed Project will not alter Resource Areas under the Act and Bylaw, the work as conditioned will not have significant or cumulative effects upon the interests of the Wetlands Protection Act or the Resource Area values of the Arlington Wetlands Bylaw when the conditions imposed are implemented to protect the Resource Area values. With the conditions contained herein, the Project meets the performance standards in the Bylaw Regulations and state Wetlands Regulations, 310 CMR 10.00.

Additional Special Conditions

In addition to the General Conditions (numbered 1-20 above), the Project is subject to the following Additional Special Conditions (under both the Act and Bylaw):

- 21. Work permitted by this Order and Permit shall conform to the Notice of Intent, the approved plans and documents (listed above), and oral representations (as recorded in hearing minutes) submitted or made by the Applicant and the Applicant's agents or representatives, as well as any plans and other data, information or representations submitted per these Conditions and approved by the Commission.
- 22. The provisions of this Order and Permit shall apply to and be binding upon the Applicant and Applicant's assignees, tenants, property management company, employees, contractors, and agents.
- 23. No work shall be started under this Order until: (a) all other required permits or approvals have been obtained and (b) the appeal period of ten (10) business days from the date of issue of this Order has expired without any appeal being filed and (c) this Order has been recorded in the Registry of Deeds. No work shall be started under this Permit until all other necessary permits or approvals have been obtained.
- 24. The Applicant shall ensure that a copy of this Order of Conditions and Permit for work, with any referenced plans, is available on site at all times, and that contractors, site managers, foremen, and sub-contractors understand its provisions.
- 25. Prior to starting work, the Applicant shall submit to the Commission the names and 24-hour phone numbers of project managers or the persons responsible for site work or mitigation.
- 26. Before work begins, erosion and sediment controls shall be installed at the limits of the work area. These will include a silt fence and 12 inch straw or silt wattle around the entire work area (haybales are not allowed and silt socks are preferred).
- 27. The contractor shall contact the Conservation Agent (concomm@town.arlington.ma.us; 781-316-3012) to arrange for a pre-construction meeting with the on-site project manager to walk through the Order of Conditions, confirm the wash out location, and walk the site to confirm the installation and placement of erosion controls prior to the start of any grading or construction work.
- 28. The contractor shall provide written Notice of the work start date to the Conservation Agent 48 hours prior to start of work.
- 29. All dumpsters must be covered at the end of each work day, and no dumpsters will be allowed overnight within the 100 foot Buffer Zone or Adjacent Upland Resource Areas ("AURA") or other Resource Areas.
- 30. No uncovered stockpiling of materials shall be permitted overnight within 100 feet of any waterway or water body.

- 31. Areas that are disturbed by construction and access activities shall as soon as possible be brought to final grade and reseeded and restabilized, and shall be done so prior to the removal of the erosion control barrier.
- 32. Arrangements shall be made for any rinsing of tools, equipment, etc. associated with on-site mixing or use of concrete or other materials such that the waste water is disposed of in the concrete wash out station-at least 50 feet from the resource area. In no case may waste water be discharged into or onto Resource Areas on or adjacent to the site. In no case may waste water be placed in stormdrains. Any spillage of materials shall be cleaned up promptly.
- 33. Any dirt or debris spilled or tracked onto any paved streets shall be swept up and removed daily.
- 34. No heavy equipment may be stored overnight within 50 feet of the wetland and no refueling or maintenance of machinery shall be allowed within the 100-foot Buffer Zone, 200-foot Resource Area, and Adjacent Upland Resource Area or within any Resource Area.
- 35. Any dewatering operations shall conform to the following:
 - (a) Notify the Conservation Commission that dewatering is required.
 - (b) Any catch basins, drain and outfalls to be used in dewatering operations shall be cleaned out before operations begin.
 - (c) Any water discharged as part of any dewatering operation shall be passed through filters, on-site settling basins, settling tank trucks, or other devices to ensure that no observable sediments or pollutants are carried into any Resource Area, street, drain or adjacent property.
 - (d) Measures shall be taken to ensure that no erosion or scouring shall occur on public or private property, or on the banks or bottoms of water bodies, as a result of dewatering operations.
- 36. The Commission, its employees, and its agents shall have the right of entry onto the site to inspect for compliance with the terms of this Order of Conditions and Permit until a Certificate of Compliance has been issued.
- 37. When requesting a Certificate of Compliance for this Order of Conditions, the Applicant must submit a written statement from a Massachusetts professional engineer, registered land surveyor, or registered landscape architect certifying that the completed work complies with the plans referenced in this Order, or provide an as-built plan and statement describing any differences.
- 38. The existing driveway shall be used as the construction entrance. One (1) foot of crushed stone shall be placed in the construction entrance.
- 39. At least 21 days prior to commencement of work, a revised Detailed Plan of Development shall be submitted by the Applicant and approved by the Conservation Commission clarifying the pervious paver depth (currently listed as "variable") of the driveway, walkways, and terrace. A minimum installation depth of two (2) feet shall be constructed for all pervious pavement.

- 40. At least 21 days prior to commencement of work, A new Detailed Plan of Development shall be submitted by the Applicant and approved by the Conservation Commission clarifying the size of the backyard pervious terrace. The backyard pervious terrace shall be constructed as a 17' x 17', rather than 25.8' x 17.8' as listed on the plans. These terrace dimensions and perviousness shall be a continuing condition that survives the expiration of the permit and shall be included in any Certificate of Compliance as a continuing condition.
- 41. Prior to plant installation, the Applicant shall submit planting plan details to the Conservation Commission for approval. Planting details shall include plant sizes, Latin names, regular names, number of plants, and transported method (containerized, balled-and-burlapped, etc.). All plantings shall be native and be installed and maintained according to the standards of the American Association of Nurserymen (AAN). This shall be a continuing condition that survives the expiration of the permit and shall be included in any Certificate of Compliance as a continuing condition.
- 42. To avoid adding excess nitrogen runoff into Spy Pond, the Applicant shall only treat the lawn with slow release nitrogen fertilizer. Application of this fertilizer cannot occur in the summer, or after storm events. Lawn fertilizer shall only be applied twice a year, in spring and fall. No herbicides shall be used to treat invasive or unwanted plants. New plantings shall only be fertilized once, during the initial planting year. No rodenticides shall be used to treat pest management issues. This shall be a continuing condition that survives the expiration of the permit and shall be included in any Certificate of Compliance as a continuing condition.
- 43. The Applicant shall install permanent markers (granite posts, etc.) along the lawn-facing edge of the vegetated buffer to prevent disruption and destruction, such as mowing. Maintenance of said permanent markings shall be a continuing condition that survives the expiration of the permit and shall be included in any Certificate of Compliance as a continuing condition.
- 44. Pervious surfaces shown on the project plans shall be maintained and not be replaced by impervious surfaces. This shall be a continuing condition that survives the expiration of the permit and shall be included in any Certificate of Compliance as a continuing condition.

NOTED ON: CERT 260345 BK 01478 PG Document Fee On: Nov 29,2018 at 10:52A Receipt Total: Southern Middlesex LAND COURT Registry District

RECEIVED FOR REGISTRATION

0

01802528

\$75,00 75.00

58

ALSO NOTED ON:

199 of 221

BROOKS

COMPANY

August 25, 2020

Sean Galvin 46 Spy Pond Parkway Arlington, MA

RE: 46 Spy Pond Parkway, DEP File # 091-0300

Dear Mr. Galvin

Enclosed please find one (1) print of the plan entitled "Plan of Land in Arlington, MA 46 Spy Pond Parkway As-Built", dated June 29, 2020, revised 8/13/20..

This office completed an as-built survey and site inspections of the project site between June 2020 and August 2020. We find that the enclosed plan differs from the Order of Conditions and the approved site plan dated September 4, 2018, revised 10/23/20, as follows:

 The planting area adjacent to Spy Pond is 742 S.F., a reduction from the proposed 890 S.F. planting area.

2. The backyard terrace was constructed at 25.8' x 17.8' as shown on the referenced site plan not at 17' x 17' as noted in Condition 40 of the Order of Conditions.

3. A larger basement access was constructed at the rear of the house. The paver access terrace is 75 S.F. with 36 S.F. of an added wall and steps, an increase from the proposed 50 S.F. access.

4. The impervious area within the 100 Buffer Zone is 990 S.F., an increase from the proposed area of 771 S.F.

Note that Condition 41 will need to be addressed by the Landscape Architect.

If you have any questions regarding this project, please feel free to call our office.

Very truly yours,

EVERETT M. BROOKS COMPANY

Michael S. Kosmo, P. E.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 8A – Request for Certificate of ComplianceMassachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

091-0300 Provided by DEP

	A.	Project Information			
Important: When filling out	1.	This request is being made by:			
forms on the computer, use only the tab		•			
		Sean D. Galvin and Marimar Galvin Name	***************************************		
		46 Spy Pond Parkway			
key to move your cursor -		Mailing Address			
do not use the		Arlington		MA	02474
return key.		City/Town		State	Zip Code
		781-640-6865	,		
tab		Phone Number			
	2.	This request is in reference to work re	egulated by a final Order of	Conditions issued to:	
return		Sean Galvin			
		Applicant		**	
		November 20, 2018		091-0300	
Harris and the con-		Dated		DEP File Number	
Upon completion of the work	3.	The project site is located at:			
authorized in		46 Spy Pond Parkway		Arlington	
an Order of Conditions, the		Street Address		City/Town	
property owner		18		9-2 (Lot 193)	
must request a		Assessors Map/Plat Number		Parcel/Lot Number	
Certificate of Compliance	4.	The final Order of Conditions was rec	orded at the Registry of De	eds for:	
from the issuing		Sean Galvin	•		
authority stating		Property Owner (if different)			
that the work or		Middlesex	1478		58
portion of the work has been		County	Book		Page
satisfactorily		260345			
completed.		Certificate (if registered land)			
	5.	This request is for certification that (ch	neck one):		
		★ the work regulated by the above-regulated by the above-re	eferenced Order of Condition	ns has been satisfactoril	ly completed.
		the following portions of the work been satisfactorily completed (use			uons nave
		been satisfactorily completed (ast	additional paper if recess	ary).	
			The state of the s		****

the above-referenced Order of Conditions has lapsed and is therefore no longer valid, and the

work regulated by it was never started.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 8A – Request for Certificate of Compliance

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

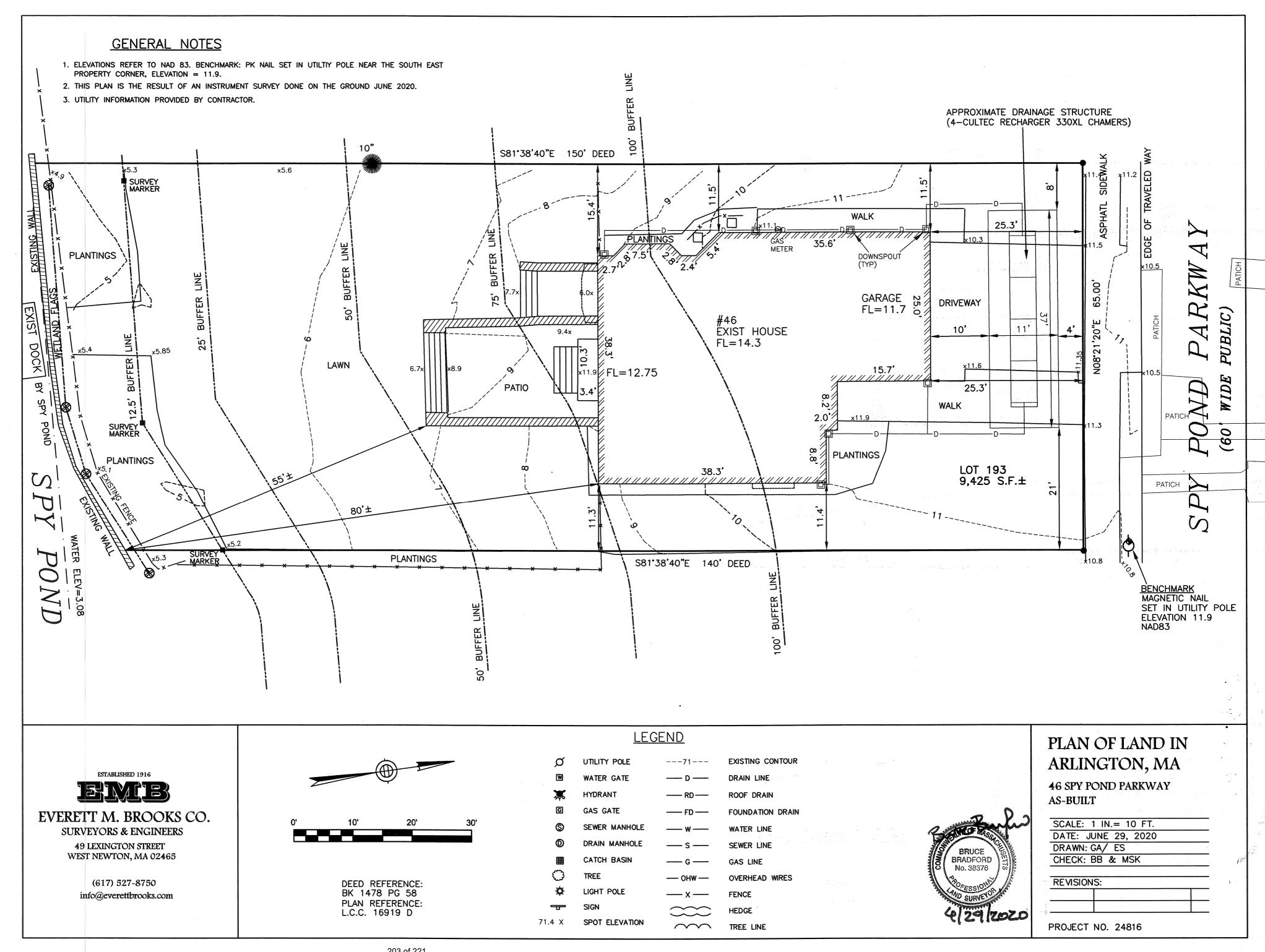
091-0300 Provided by DEP

A. Project Information (cont.)

6.		of Conditions for this project, or the portion of the project subject to this request, contain any plans stamped by a registered professional engineer, architect, landscape and surveyor?
	⊠ Yes	If yes, attach a written statement by such a professional certifying substantial compliance with the plans and describing what deviation, if any, exists from the plans approved in the Order.
	☐ No	

B. Submittal Requirements

Requests for Certificates of Compliance should be directed to the issuing authority that issued the final Order of Conditions (OOC). If the project received an OOC from the Conservation Commission, submit this request to that Commission. If the project was issued a Superseding Order of Conditions or was the subject of an Adjudicatory Hearing Final Decision, submit this request to the appropriate DEP Regional Office (see http://www.mass.gov/eea/agencies/massdep/about/contacts/find-the-massdep-regional-office-for-your-city-or-town.html).





www.scafidijuliano.com

Telephone: 781-210-4710 Facsimile: 781-210-4711

February 25, 2021

Arlington Conservation Commission Arlington Town Hall 730 Massachusetts Avenue Annex Arlington, Massachusetts 02476 Attention: Emily Sullivan, Administrator

RE:

46 Spy Pond Parkway, Arlington, MA

DEP Number: 091-0300

Dear Ms. Sullivan:

As you are aware, this office represents the owners Sean D. Galvin and Marimar Galvin relating to the outstanding Order of Conditions for the above-referenced property. On or about July 7, 2020, a Request for Certificate of Compliance was filed along with As Built Plans. As a result of said filing, the Commission had a few outstanding questions and concerns.

The purpose of this letter is to address the Commission's questions and concerns and also request to be placed on the agenda for your next public meeting so that we can address this matter.

It is our understanding that the outstanding questions and concerns cover a few of the Conditions, specifically:

Condition 39. At least 21 days prior to commencement of work, a revised Detailed Plan of Development shall be submitted by the Applicant and approved by the Conservation Commission clarifying the pervious paver depth (currently listed as "variable") of the driveway, walkways, and terrace. A minimum installation depth of two (2) feet shall be constructed for all pervious pavement.

Condition 40. At least 21 days prior to commencement of work, A new Detailed Plan of Development shall be submitted by the Applicant and approved by the Conservation Commission clarifying the size of the backyard pervious terrace. The backyard pervious terrace shall be constructed as a 17' x 17', rather than 25.8' x 17.8' as listed on the plans. These terrace

dimensions and perviousness shall be a continuing condition that survives the expiration of the permit and shall be included in any Certificate of Compliance as a continuing condition.

Condition 41. Prior to plant installation, the Applicant shall submit planting plan details to the Conservation Commission for approval. Planting details shall include plant sizes, Latin names, regular names, number of plants, and transported method (containerized, balled-and-burlapped, etc.). All plantings shall be native and be installed and maintained according to the standards of the American Association of Nurserymen (AAN). This shall be a continuing condition that survives the expiration of the permit and shall be included in any Certificate of Compliance as a continuing condition.

As we would like to discuss these matters in more detail at the public hearing, our brief response to each are as follows:

Condition 39. It is admitted that in ignorance, the Owners believed that the engineer, Everett Brooks, was reporting back to the Commission and that any issues would have been brought up at that time of installation. In addition, the Owners believed that the inspection by Ms. Sullivan at the time of construction was sufficient enough to fulfill this condition. However, the Owners can confirm that the installation of the pavers was done in accordance to the instructions as attached hereto. In addition, it is very noticeable from the grade of the back terrace that enough crushed stone was placed below the terrace to allow the pavers to infiltrate accordingly as designed.

Condition 40. When excavation to construct the house and back terrace began, the water table was much higher than expected. As a result, the back terrace had to be higher than what was originally proposed. In an effort to keep the stairs at a reasonable steepness as a result of the increase in height, the terrace had to be elongated in order to allow this. As a result of the increased height of the terrace, impervious area increased from the proposed 771 square feet to 990 square feet which is due to the increased stairway and wall only.

<u>Condition 41.</u> See attached updated planting plan showing all plantings installed on the property which should satisfy the Commission.

Please feel free to contact me with any additional questions or concerns with this matter and we look forward to discussing the particulars with you at your next public hearing.

James A. Juliano

Respectfully submitted

JAJ/abm

Enclosures









PERMEABLE PAVER MAINTENANCE GUIDE

DESIGNED TO CONNECT



This guide is specific to Unilock® permeable pavers as a maintainable system for storm water runoff and does not cover cleaning concrete pavers themselves. Please see the Unilock Product Care and Maintenance Guide (available for download at www.unilock. com) for information on cleaning concrete pavers. The maintenance information in this guide is intended for Unilock permeable paver systems only and not for other types of permeable pavers or pervious systems.

Maintenance is necessary for any type of permeable pavement system, much like any impervious pavement with catch basins and underground infrastructure. Over the lifetime of the permeable paver system there will be a need to clean any sediment, soil, dirt and debris from the joint aggregate material to maintain a sufficient infiltration rate. Every project will vary in performance needs, as well as to the frequency in which the joint material must be cleaned. The surface infiltration rate must be greater than the regional 100 year rainfall intensity to adequately ensure no runoff is generated, which is only one goal for using permeable pavers. Unilock® suggests establishing a maintenance plan using the techniques in this document to prevent clogging.



Preceding Maintenance	4
Examples of Common Maintenance Issues	4
Maintenance Types	5
Maintenance Equipment	6
Strategic Procedures for Maintaining Infiltration	8
Recommended Seasonal Maintenance Schedule	9
Winter Maintenance and De-icina	10

PRECEDING MAINTENANCE

Before providing maintenance on permeable paver systems, proper installation and protection during construction is required. Here are a few conditions to observe, require and prevent for establishing a successful system:

1. Verify correct installation and materials:

- Hire contractors with knowledgeable experience installing permeable pavers.
- Review and approve all sub-base, base and joint aggregate materials.
- Do not allow sand and dense-graded aggregates.

2. Prevent construction damage:

- Limit subgrade soil compaction when infiltration is necessary.
- Restrict vehicles with muddy tires from driving over newly placed pavers.
- Do not mix aggregate materials.

3. Refill joint material:

- Once, between 3 and 6 months after initial installation.
- Repeat as needed approximately every 5-10 years.

4. Avoid stockpiling of materials such as:

- Topsoil.
- · Mulch.

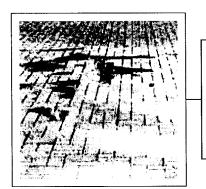
The proper materials and installation execution can be found in the Unilock specifications for permeable pavers. Both residential and commercial projects will utilize the same base, setting bed and joint aggregates. Some projects many not require sub-base materials, underdrainage or geotextile. It is not necessary to separate the setting bed from the base aggregates with a geotextile.

EXAMPLES OF COMMON MAINTENANCE ISSUES

Below are several warning signs and visual clues of common maintenance issues which must be prevented and addressed or remediated to ensure continued surface infiltration.

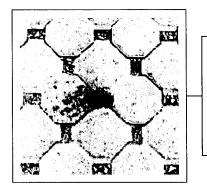
1. Slow Draining/Runoff:

- Verify with simple infiltration testing or observe after rain storms.
- Surface should drain immediately.



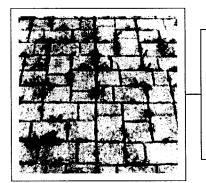
2. Ponding and Bird Baths:

- Rule of thumb: if more than a nickel deep one minute after a rainfall event, maintenance is necessary.
- · Verify correct materials were installed.
- Exceptions at bottom of slopes.



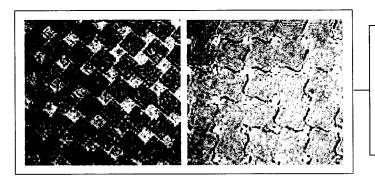
3. Surface Crusting:

- Identify if there is a problem such as run on sediments.
- Increase cleaning frequency in troubled areas.
- Remove debris immediately.



4. Weeds:

- Weeds will not germinate unless there is a collection of soil or moisture.
- Remove weeds immediately.
- Clean sediment from joint material.
- Chemical treatment may be required prior to maintenance removal.



5. Covered Joint Material:

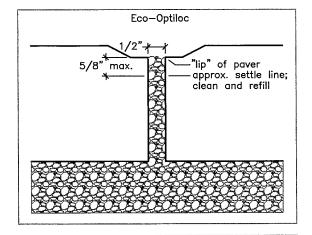
- Identify problem and correct.
- Remove immediately.
- Joint material should appear as photo on right.

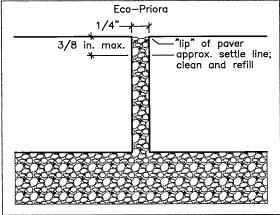
These common problems can often be easily remedied by maintaining the proper joint aggregate level.

MAINTENANCE TYPES

There are two service types for maintaining the integrity of a permeable paver system.

- **1. Preventative** removes most miscellaneous debris before being trapped in the joint aggregate material causing clogging. This usually does not require removal of any joint material to restore infiltration.
- 2. Restorative requires some removal or complete removal of the joint material to renew infiltration. Occurs after miscellaneous debris has been captured and lodged in the joint aggregate.





*Note: Both maintenance types will be most effective when the joint aggregate material is filled to the "lip" of the paver. If the joint material has settled more than the joint width, plus 1/8 inch below the paver lip, the maintenance equipment is significantly less effective and potentially more expensive.

MAINTENANCE EQUIPMENT

Maintenance equipment requirements will vary according to project size, age, and product type.

<u>Project Type 1:</u> For smaller pedestrian type areas such as sidewalks, driveways, plazas, patios or similar:

Preventative:

1. Hand-Held Bristle Broom

- Available at any hardware store.
- Sweep as needed to keep the surface clear of debris.
- Approximate cost: \$15.

2. Leaf Blower

- Electric or gas powered.
- Minimum air speed of 120 mph.
- Joint aggregate material will remain in place while removing debris from paver surface.
- Approximate cost: \$50 to \$300.

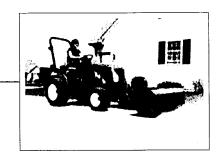






3. Rotary Brush

- Poly bristles only.
- Flips debris from joint.
- Will require slight refilling of the joint aggregate material.
- Approximate cost: varies depending on attachment vehicle.



Restorative:

1. Wet/Dry Shop Vacuum

- Minimum 4 HP (peak) motor with 130 cubic feet per minute suction.
- Will remove some joint aggregate material.
- Replenish removed joint aggregate material to "lip" of paver.
- Approximate cost: \$50 to \$150.



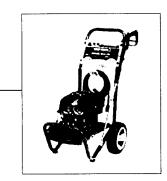
2. Riding Litter Vacuum

- Tennant ATLV 4300.
- 48 inch wide vacuum head.
- 110 gallon capacity.
- Can also be used as a preventative technique.
- Will evacuate most debris from joint except for aggregate material.
- Approximate cost: approx. \$25K new.



3. Powerwasher

- Capable of spraying 1,400 to 1,800 psi.
- Spray at a 30 degree angle approximately 18 to 24 inches from the surface.
- Will evacuate joint material.
- Replenish removed joint aggregate material to "lip" of paver.
- Approximate cost: \$125 to \$500.



<u>Project Type 2:</u> For larger vehicular areas such as roads, parking lots, alleys, plazas or similar that can support vehicles:

Preventative:

1. Rotary Brush

- Poly bristles only.
- Flips debris from joint.
- Will require slight refilling of the joint aggregate material.
- Approximate cost: Varies depending on attachment vehicle.





2. Broom Sweepers

- Typical "street sweeper" type.
- Rotating curb brushes with center pickup.
- Poly bristles only.
- Do not utilize water to clean the surface as this can have detrimental effects on the cleaning.
- Best for seasonal cleaning.
- Approximate cost: \$100 to \$120 per hour from a service company.



3. Regenerative Air Sweepers

- Light duty suction cleaning.
- Utilizes stream of air blowing horizontally across surface and vacuuming.
- No rotating brushes.
- Approximate cost: \$45 to \$65 per hour from a service company.



Restorative:

1. Vacuum Sweepers

- Vacall Dynamic Multi-Purpose Vacuum. (top photo)
- Elgin Whirlwind. (bottom photo)
- Heavy duty cleaning.
- Minimum suction of 14,000 cubic feet per minute.
- Complete evacuation of joint aggregate material.
- Replenish removed joint aggregate material to "lip" of paver.
- Approximate cost: \$2.50 to \$4.50 per parking space.



2. Powerwashers

- Capable of spraying 1,400 to 1,800 psi.
- Spray at a 30 degree angle approximately 18 to 24 inches from the surface.
- Will evacuate joint aggregate material.
- Replenish removed joint aggregate material to "lip" of paver.

STRATEGIC PROCEDURES FOR MAINTAINING INFILTRATION

Observe and implement the following habitual procedures to ensure longevity of the system.

- 1. Weekly prevent contamination from routine landscape maintenance such as grass clippings from mowing, hedge trimming, mulching plant beds, etc. by implementing the following joint opening cleaning procedures immediately after contamination occurs:
 - Hand broom debris from the paver surface.
 - Blow debris from the paver surface with backpack blower type device, collect and dispose.
 - Mechanically sweep paver surface.



- 2. Monthly observe any collection areas of debris, dirt, topsoil, mulch, etc. after season events such as snowfall, rain storms, leaf litter, etc. and investigate if clogging is occurring. Immediately restore infiltration using the following cleaning options:
 - Break up any crust covering the joint aggregate material with hand broom for smaller areas or mechanically with a rotary sweeper for larger areas. Remove debris material.
 - When necessary, restore infiltration using wet/dry shop vacuum for small areas or vacuum truck for larger areas by removing debris from joint aggregate material.
 - Replenish joint aggregate material to "lip" of paver.
- 3. Yearly establish a seasonal maintenance schedule that includes the following:
 - Sweep entire permeable paving surface with appropriate preventative sweeping devices.
 - Replenish joint aggregate material to "lip" of paver.
- **4.Ten years plus** plan long term maintenance to rejuvenate infiltration rates:
 - Complete restoration of the joint aggregate material.
 - Replenish joint with cleaned or new aggregate material to "lip" of paver.

RECOMMENDED SEASONAL MAINTENANCE SCHEDULE

Unilock suggests establishing a best practices maintenance program to ensure longevity of the systems before restorative action is required. Biannual preventative maintenance is suggested as shown in the schedule below. This includes sweeping once in the early spring and once again in the late fall. Below is a preventative maintenance timeline that includes four maintenance suggestions:

1. After the snow melt - March 1 through April 15

- Broom, blow, rotary brush or sweep entire surface.
- Clean debris from paver surface in location of snow stockpile area.
- Replenish joint aggregate material after cleaning.
- Every fifth year, vacuum or power wash problem areas and refill joint material.

2. Late Spring – April 1 through May 15

- Broom, blow, rotary brush or sweep flowers from trees and shrubs.
- Collect any additional debris from areas mulched or planted with annual flowers.
- Replenish joint aggregate material as necessary.

3. Late Summer - July 15 through August 30

- Broom, blow, rotary brush or sweep lawn and shrub clippings or tree fruits.
- Collect any additional debris from summer activities such as charcoal coals inadvertently dumped on the permeable surface, beach sand, etc.
- Replenish joint aggregate material as necessary.

4. Late Fall – October 15 through November 30

- Broom, blow, rotary brush or sweep plant leaves.
- Replenish joint aggregate material as necessary.

Various factors will affect each project's preventative maintenance timeline and must be reviewed individually.

See the Recommended Seasonal Maintenance Schedule chart on next page.

Recommended Maintenance	Seasonal BMP						
Schedule	After Snow Melt	Late Spring	Late Summer	Late Fall			
Project Type 1: Preventative - c	noose one	1x per season	optional	1x per season			
Bristle Broom	**	*	*/**	**			
Leaf Blower	**	*	*/**	*			
Rotary Brush	*********** *** ****** **** **** ** **	**************************************	*/**	*			
Project Type 1: Restorative	April 1885		and the second	**			
Wet-Dry Vacuum	**	**	**	**			
Riding Litter Vacuum Powerwasher Project Type 2: Preventative - c	*** ***********************************	*	**1x every 5 yrs.	*			
Powerwasher	**	**	**	**			
Project Type 2: Preventative - c	hoose one	1x per season	optional	1x per season			
Rotary Brush	And the second of the second o	* **	*	*			
Broom Sweepers		***************************************		*			
Regenerative Air Sweepers		*	*** ***********************************	*			
Project Type 2: Restorative							
Vacuum Sweepers			** 1x every 10 yrs.				
Powerwasher	**	**	**	**			

^{*} recommended

WINTER MAINTENANCE AND DE-ICING

Durability is one benefit that Unilock paving stones are known for. Almost all Unilock paving stones have a slight bevel around the edge of the stone. This helps protect the edges from potential chipping by snow clearing equipment. Always use a plastic snow shovel for paving stones. Also fit snow blowers with plastic shoes on the adjustable gliders and on the scoop edge.

When using commercial snow removal companies, confirm in writing they have protective edges on the snowplow equipment to avoid scratching the surface. Although the metal on snow clearing equipment will not adversely affect Unilock paving stones structurally, the contact of any steel on concrete can potentially leave tiny particles of metal in the paver surface which will rust and leave unsightly brown streaks. (A good example of this can be seen on the municipal curbs at the street). To reduce aesthetic damage to the paver surface, only use a polymer or rubber cutting edge on the plow.

De-icing substances, when used in proper amounts, will not damage good-quality concrete. They will, however, speed up the surface wear on some styles of pavers. Many of the exposed aggregate products and tumbled products are unaffected by virtue of their style.

There are three primary types of de-icing salts:

- Sodium chloride (common rock salt) is the most popular de-icing salt. It is widely available and it will melt snow and ice at temperatures down to approximately 16° F. Below 16° F, rock salt stops melting snow and ice. Sodium chloride can damage adjacent grass, plants and metal. Apply with caution and use as sparingly as possible.
- Calcium chloride is another de-icing salt. It generally looks like small, white, round, pellets.
 It will melt snow down to about 0° F. It can irritate skin. Studies indicate that depending on the concentration, calcium chloride is less damaging to grass than sodium chloride is.
 Heavy concentrations of calcium chloride can chemically attack concrete.
- Potassium chloride is a de-icing salt available in some markets. It will not hurt skin or damage plants. However, it melts ice only when the air temperature is above 15° F, but it can be combined with sand to improve effectiveness.

Note: Do not use magnesium chloride.

Note: Do not use sand for anti-skid with permeable pavers as it will clog the joint material.

Note: Fertilizers that contain ammonium nitrate and ammonium sulfate should not be used for de-icing since these substances attack the integrity of concrete. Always read the manufacturer's recommendations for use and heed all warnings and cautions.



^{**} as needed per Strategic Procedures

NOTES
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When we take care of the earth, it will ultimately take care of us.

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TORONTO

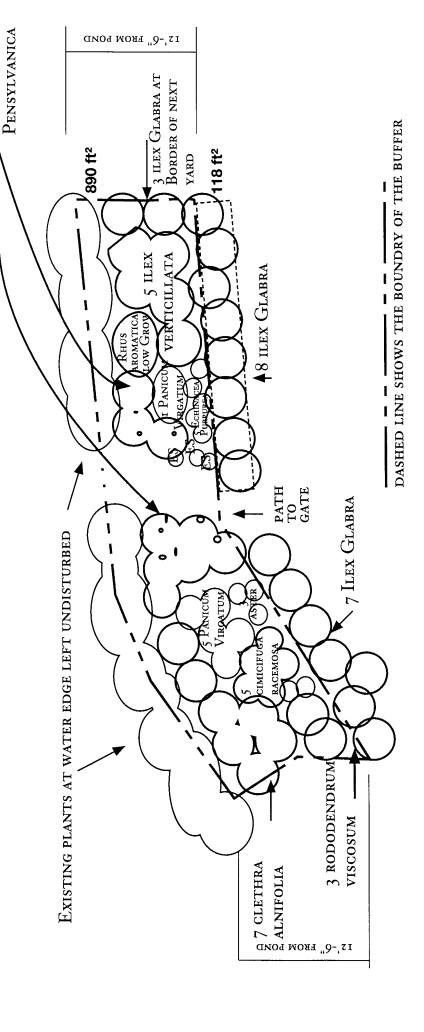
287 Armstrong Ave. Georgetown, ON L7G 4X6

Tel: (416) 646-9000 Fax: (905) 874-3034





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13 Myrica

PLANT LIST

13 Myrica Pensylvanica, Bayberry

1 Rhus Aramatica, sumac

5 Ilex Verticellata, Winterberry, 1 male +4 female

6 Panicum Virgatum, Switch Grass 3 Erogrostis Spec., Purple Love Grass

5 Echinacea Purpurea, Coneflower

3 Aster Nove Angliae, New England Aster

Clethra Alnifolia, Sweet Pepper Bush Cimicifuga Racemosa, Snakeroot

isolated in an awkward way so I have added

This leaves the existing clump of salix

the ilex band and the Magnolia. (dotted

line) Combined they add 292 sq. ft.

The 12 foot buffer constitutes 890 sq.ft.

Note:

Rododendron Viscosum, Swamp Azalea

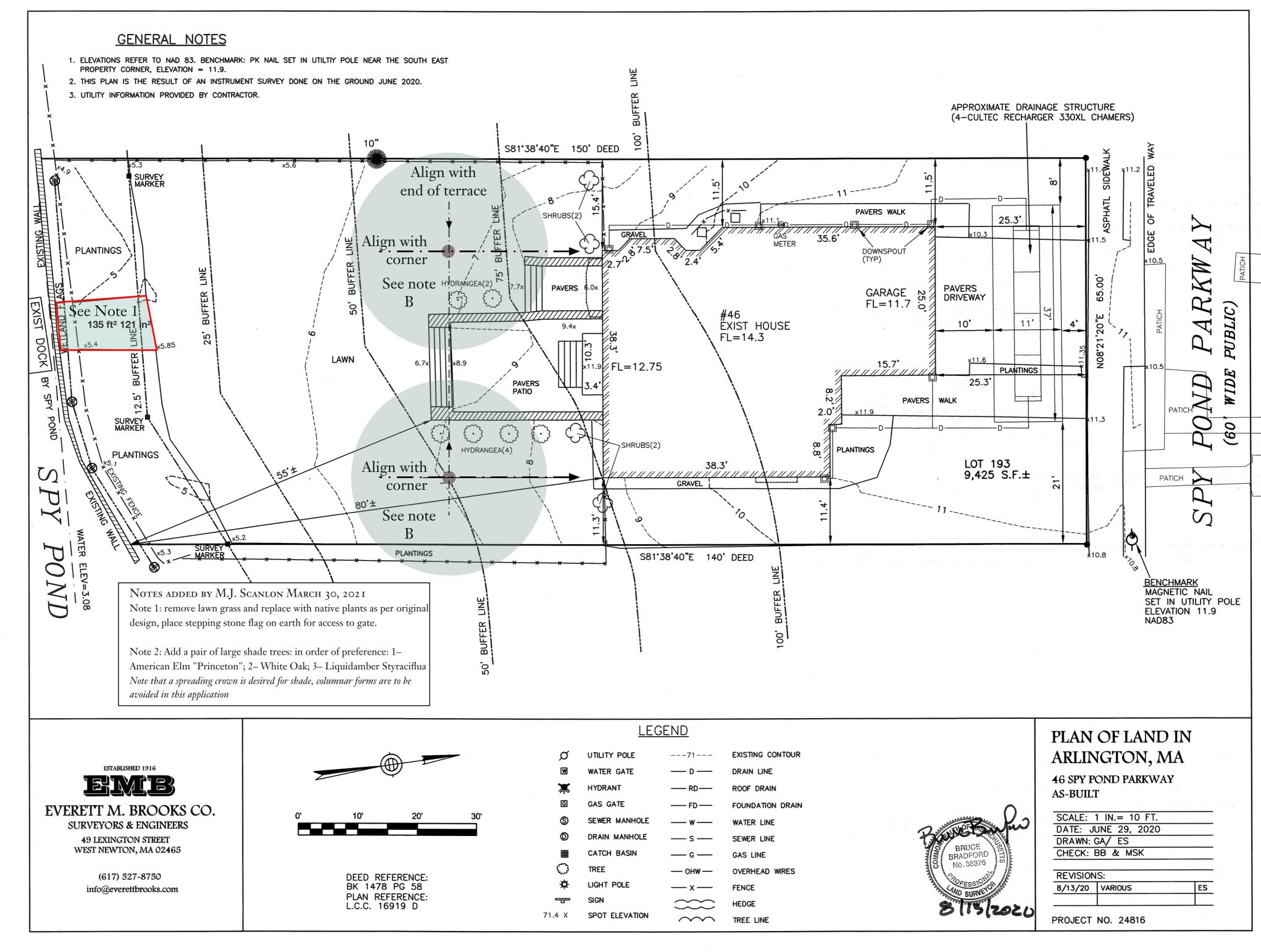
Tiarella Cordata, Foamflower 18 Ilex Glabra, Ink Berry

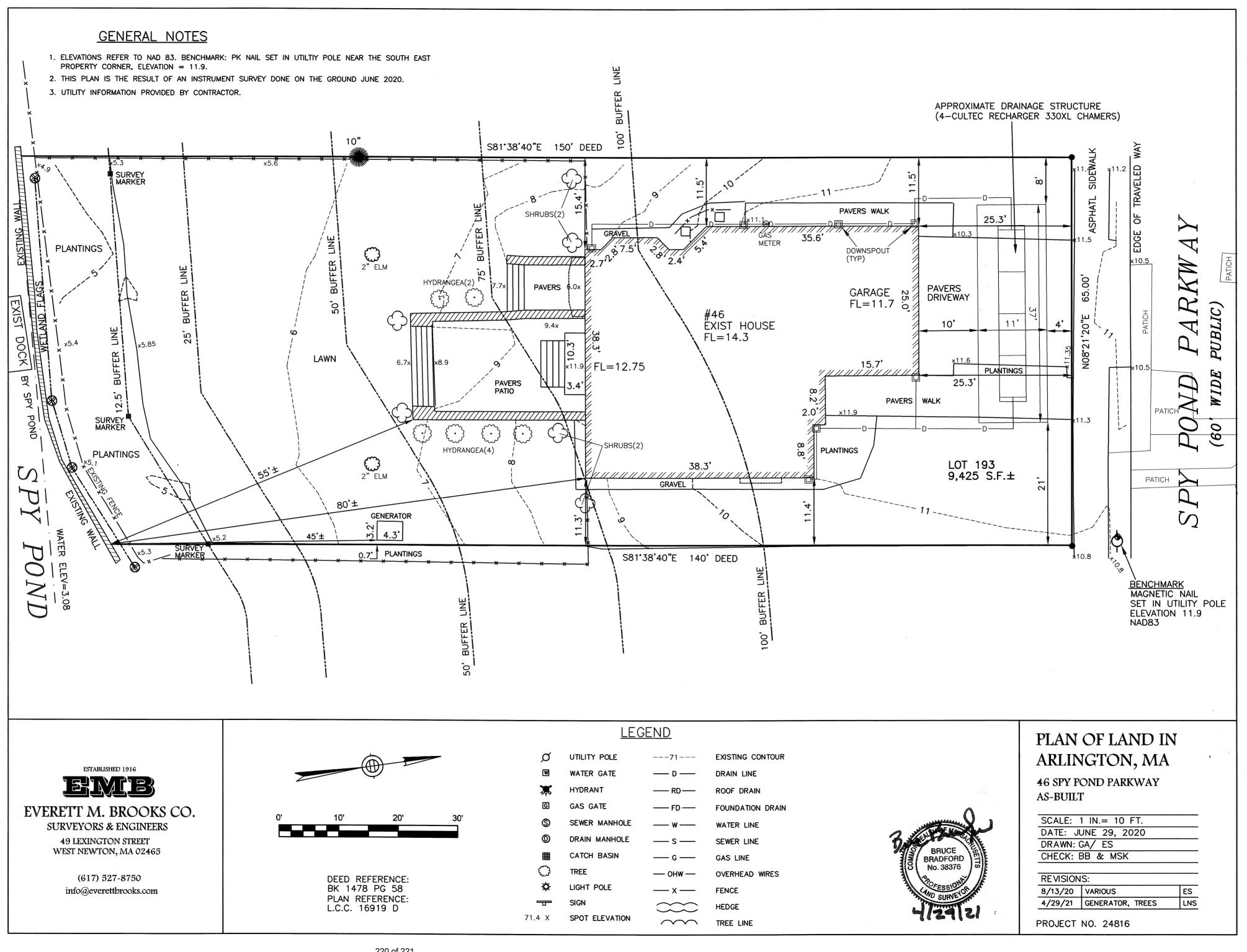
12 FOOT VEGETATION BUFFER 46 SPY POND PARKWAY Arlington, MA MAY 2020

MICHAEL J. SCANLON The Studio Of

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National Council for Interior Design Qualification # 12167 www.MJScanlon.com





BROOKS

April 29, 2021

Sean Galvin 46 Spy Pond Parkway Arlington, MA

RE: 46 Spy Pond Parkway, DEP File # 091-0300

Dear Mr. Galvin

Enclosed please find one (1) print of the plan entitled "Plan of Land in Arlington, MA 46 Spy Pond Parkway As-Built", dated June 29, 2020, revised 4/29/21...

This office completed an as-built survey and site inspections of the project site between June 2020 and April 2021. We find that the enclosed plan differs from the Order of Conditions and the approved site plan dated September 4, 2018, revised 10/23/20, as follows:

- 1. The backyard terrace was constructed at 25.8' x 17.8' as shown on the referenced site plan not at 17' x 17' as noted in Condition 40 of the Order of Conditions.
- 2. A larger basement access was constructed at the rear of the house. The paver access terrace is 75 S.F. with 36 S.F. of an added wall and steps, an increase from the proposed 50 S.F. access.
- 3. The impervious area within the 100 Buffer Zone is 990 S.F., an increase from the proposed area of 771 S.F.
- 4. Note that Condition 41 will need to be addressed by the Landscape Architect.
- 5. A generator and pad was added to the site.

If you have any questions regarding this project, please feel free to call our office.

Very truly yours,

EVERETŢ M, BROOKS COMPANY

Michael S. Kosmo, P. E.